GOVERNMENT OF KARNATAKA

BRUHATH BENGALURU MAHANAGARA PALIKE

Tender

For

The Supply of Ambulance with fabrication and medical equipment's to BBMP

TENDER NUMBER: BBMP/2025-26/IND0137

TENDER SCHEDULE

•	Tender Reference No.	:	**BBMP/2025-26/IND0137**
•	Date of Commencement of Download of Tender Document from Karnataka public procurement portal website http://kppp.karnataka.gov.in	:	On 26/05/2025 onwards
•	Date, Time & Venue of Pre-bid Meeting	:	04/06/2025 at 12:30 PM at the following venue: Office of the Special commissioner (health and welfare),3rdfloor, Annexe 3 Building, N.R. Square, Bengaluru-560002.
•	Last Date and Time for uploading Online Queries in Karnataka public procurement portal	:	04/06/2025 up to 5:00 pm
•	Last Date and Time for uploading of eTender in Karnataka public procurement portal	:	26/06/2025 up to 5:00 pm
•	Date and Time of Online Opening of Technical Bids in Karnataka public procurement portal	:	27/06/2025 5:10 pm
•	Date and Time of Demonstration of Sample submission	:	Shall be intimated after technical bid opening
•	Address for Communication	:	Chief Health Officer (Public Health), Office of the CHO ground Floor, Annexe-3 Building Bengaluru-560002. Email:choph515@gmail.com Contact:9845208571

Note:

- Completed tenders shall be uploaded through e-tendering system by the Tenderers using their User IDon or before the last date & time stipulated.
- In the event of the specified date of opening of Technical Bid (First Cover) being declared a holiday for the Purchaser, the Technical Bid will be opened on the next working day.

SECTION I
INVITATION FOR TENDER (IFT)

IFT NO: BBMP/2025-26/IND0137 Date: 26/05/2025

1. The BBMP AC (Welfare) (Purchaser) invites e-Tender from eligible tenderers who are registered in the Karnataka public procurement portal for the supply of the goods listed below:

Sl.NO	Name of the Item	Qty	EMD	Annual Turnover	Annual Turnover for MSME	80% past performance for Manufacturer	40% past Performance for MSME Manufacturer	30% past Performance of Authorized Agent	Warranty	CMC
1	Ambulance with fabrication and medical equipments as per specifications in the tender document	26	10,65,909	7,10,60,626	3,55,30,313	21	10	8	3 Years	Nil

Note:

- The number of years of warranty required for the item, stated in this table supersedes the number of years of warranty stated elsewhere in the tender document.
- The number of years of CMC required for the item, stated in this table supersedes the number of years of CMC stated elsewhere in the tender document.

2. The Bidders should submit tenders through Karnataka public procurement portal for all the above given goods. Bidders are advised to note the qualification criteria specified in Section VII to qualify for award of the contract.

3. Tender documents may be downloaded from www.kppp.karnataka.gov.in The bidders will be required to register themselves with the centre for e-governance to participate in the bidding process and also get necessary digital signature certificates. The details of the process of registration and obtaining the digital signature certificates are available on the website http://www.kppp.karnataka.gov.in .

4. The Earnest Money Deposit shall be paid through any of the following e-payment modes.

   a. Credit card
   b. Debit card.
   c. National Electronic Fund Transfer.
   d. Remittance over the ICICI Bank counters using OTC challan anywhere in India.

   The supplier/contractor's bid will be evaluated only on confirmation of receipt of the payment (EMD) in the GoK's central pooling a/c held at ICICI Bank

5. Technical bids will be opened online in the eportal. If the office happens to be closed on the last date of receipt of the tenders as specified, the tenders will be opened on the next working day at the same time and venue.

6. Other details can be seen in the tender document.

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SECTION – II: INSTRUCTIONS TO TENDERS

A. INTRODUCTION

1 Eligible Bidders

1.1 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the supply of goods to be purchased under this Invitation for Tenders.

1.2 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the concerned State Government or by Government of India.

2. **Cost of tendering**

2.1 The Bidders shall bear all the costs associated with the preparation and submission of its tender and CHO (public Health) herein after referred to as purchaser, will in no Case be responsible or liable for these costs regardless of the conduct or outcome of the tender process.

B. TENDER DOCUMENTS

3. Contents of Tender Documents

3.1 The Goods required, tendering procedures and contract terms are prescribed in the tender documents. In addition to the Invitation for Tenders, the tender documents include:

a) Instructions to Bidders (ITT)
b) General Conditions of Contract (GCC) ;
c) Special Conditions of Contract (SCC) ;
d) Schedule of Requirements;
e) Technical Specifications;
f) Tender Form and Price Schedules;
g) Earnest Money Deposit Form;
h) Contract Form;
i) Performance Security Form;
j) Performance Statement Form;
k) Manufacturer's Authorization Form; and
l) Vehicles and Quality Control Form

3.2 The Tenderer is expected to examine all instructions, forms, terms and specifications in the tender documents. Failure to furnish all information required by the tender documents or submission of a tender not substantially responsive to the tender documents in every respect will be the Tenderer's risk and may result in rejection of its tender.

4. **Clarification of tender Documents**

4.1A prospective Tenderer requiring any clarification of the tender documents may notify the Purchaser in writing by queries through Karnataka public procurement portal. The Purchaser will respond in writing for clarification of the tender documents which it receives no later than last date for receiving queries through Karnataka public procurement portal prescribed by the Purchaser. Written copies of the Purchaser's response will be published in the e-procurement portal in the form of Addendum / Corrigendum.

5. Amendment of Tender Documents

5.1 At any time prior to the deadline for submission of tenders, the purchaser may, for any reason, whether at its own initiative or otherwise, modify the tender documents and notify the addendum on Karnataka public procurement portal. No individual communication is made in this regard.

5.2 In order to allow prospective BIDDERS reasonable time in which to take the addendum into account in preparing their tenders, the Purchaser, at its discretion, may extend the deadline for the submission of tenders and issue corrigendum on Karnataka public procurement portal.

C. PREPARATION OF TENDERS

6 Language of Tender

6.1 The tender prepared by the Tenderer, as well as all correspondence and documents relating to the tender exchanged by the Tenderer and the Purchaser shall be written in English language. Supportive documents and printed literature furnished by the tenderer may be in another language provided they are accompanied by an accurate translation of the relevant passages in the English language in which case, for purposes of interpretation of the tender, the translation shall govern.

7. Documents comprising the Tender

7.1 The tender prepared by the Tenderer shall comprise the following components:

a) A Tender Form and a price Schedule completed in accordance with ITT Clauses 8,9 and 10

b) Documentary evidence established in accordance with ITT Clause 11 that the Tenderer is eligible to tender and is qualified to perform the contract if its tender is accepted;

c) Documentary evidence established in accordance with ITT Clause 12 that the goods and ancillary services to be supplied by the Tenderer are eligible goods and services and conform to the tender documents; and

d) Earnest Money Deposit furnished in accordance with ITT Clause 13.

8. Tender Form

a. The Tenderer shall complete the Tender Form and the Price Schedule furnished in the Karnataka public procurement portal, indicating the Goods to be delivered, country of origin, quantity and prices.

9. Tender Prices

9.1 The Tenderer shall indicate on the Price Schedule the unit prices and total tender prices of the goods it proposes to supply under the Contract. To this end, the tenderers are allowed the option to submit the tenders for any one or more schedules specified in the 'Schedule of Requirements' and to offer discounts for combined schedules. However, tenderers shall quote for the complete requirement of goods and services specified under each schedule on a single responsibility basis, failing which such tenders will not be taken into account for evaluation and will not be considered for award. The tenderer shall indicate the unit price and total tender price of entire quantity on the prices schedule that shall be inclusive of all taxes, transportation of the goods inclusive of free service during the warranty period

9.2 Prices indicated on the Price Schedule shall be entered including all taxes:

(i) the price of the goods, quoted (off-the-shelf, as applicable), including all duties and GST and other taxes already paid or payable

(ii) Deleted.

(iii) The price for inland transportation, insurance and other local costs incidental to delivery of the goods to their final destination.

(iv) The price of other incidental services listed in clause 4 of the special condition of contract.

9.3 The Tenderer's separation of the price components in accordance with ITT Clause 9.2 above will be solely for the purpose of facilitating the comparison of tenders by the Purchaser and will not in any way limit the Purchaser's right to contract on any of the terms offered.

9.4 Prices quoted by the Tenderer shall be fixed during the Tenderer's performance of the Contract and not subject to variation on any account. A tender submitted with an adjustable price quotation will be treated as non-responsive and rejected, pursuant to ITT Clause 22.

10. Tender Currency

10.1Prices shall be quoted in Indian Rupees:

11. Documents Establishing Tenderer`s Eligibility and Conformity to Tender Documents

11.1 Pursuant to ITT Clause 7, the Tenderer shall furnish, as part of its tender, documents establishing the tenderers eligibility to the tender and its qualifications to perform the contract if its tender is accepted.

11.2 The documentary evidence of the tenderers qualifications to perform the contract if its tender is accepted shall establish to purchaser`s satisfaction:

(a) That in the case of tender offering to supply goods under the contract which the tenderer did not manufacture or otherwise produce, the tenderer has been duly authorized (as per authorization form in section XIII) by the goods` manufacturer or producer to supply the goods in India.
[Note: Supplies for any particular item in each schedule of the tender should be from one manufacturer only. Tenders from agents offering supplies from different manufacturer's for the same item of the schedule in the tender will be treated as non-responsive.]

(b) That the tenderer has the financial, technical and production capability necessary to perform the contract and meets the criteria outlined in the qualification requirements specified in section VII. To this end, all the tenders submitted shall include the following information

i) the legal status, place of registration and principal place of business of the company or firm or partnership etc

ii) Details of experience and past performance of the tenderer on item offered and on those of similar nature within the past 3 years and details of current contracts in hand and other commitments. (suggested proforma given in Section XII)

12. **Documents establishing goods eligibility and conformity to tender documents**.

12.1 Pursuant to ITT Clause 7, the Tenderer shall furnish, as part of its tender, documents establishing the eligibility and conformity to the tender documents of all goods and services which the tenderer proposes to supply under the contract.

12.2 The documentary evidence of conformity of the goods and services to the tender documents may be in the form of literature, drawing and data, and shall consist of-

a) A detailed description of the essential technical and performance characteristics of goods.

b) A list giving full particulars, including available sources and current prices of the

spare parts, special tools etc necessary for the proper and continuing functioning of the goods for a period of three years, following commencement of the use of the goods by the purchase ; and

c) An item by item comments on the purchasers` technical specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviation and expectations to the provisions of the technical specifications

12.3 For purposes of the commentary to be furnished pursuant to ITT Clause 12.2(c) above, the Tenderer shall note that standards for workmanship, material and vehicles, and references to brand names or catalogue numbers designated by the Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Tenderer may substitute alternative standards, brand names and/or catalogue numbers in its tender, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

12.4 The model/samples quoted by the bidder must be demonstrated and should be as per the technical specifications of this tender, subject experts will evaluate the model/samples at the time of demonstration, if the submitted model/sample for demonstration is not as per the technical specifications, or if it is of poor quality then those bids will be rejected.

13. Earnest Money Deposit

13.1 Pursuant to ITT Clause 7, the Tenderer shall furnish, as part of its tender, earnest money deposit in the amount as specified in Section-V - Schedule of Requirements.

13.2 The earnest money deposit is required to protect the Purchaser against the risk of Tenderer's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 13.7.

13.3The Earnest Money Deposit shall be denominated in Indian Rupees and shall be paid in the e-procurement portal using the following payment modes:

- Credit Card.
- Direct Debit.
- Debit card.
- National Electronic Funds Transfer (NEFT)
- Over the Counter (OTC). The OTC payment facility will be available at the designated Bank and branch or any bank approved by e-Governance for making payments from the date of tender notification.

13.4 Any tender not secured in accordance with ITT Clauses 13.1 and 13.3 above will be rejected by the Purchaser as non-responsive, pursuant to ITT Clause 22.

13.5 Unsuccessful Tenderer's earnest money deposit will be discharged/returned as promptly as possible but not later than 30 days after the expiration of the period of tender validity prescribed by the Purchaser, pursuant to ITT Clause 14.

13.6 The successful Tenderer's earnest money deposit will be discharged upon the Tenderer signing the Contract, pursuant to ITT Clause 30, and furnishing the performance security, pursuant to ITB Clause 31.

13.7 The earnest money deposit may be forfeited:

a) if a Tenderer i) withdraws its tender during the period of tender validity specifiedby the Tenderer on the Tender Form; or ii) does not accept the correction of errors pursuant to ITT Clause 22.2; or

b) in case of a successful Tenderer, if the Tenderer fails:

i) to sign the Contract in accordance with ITT Clause 30; or

ii) to furnish performance security in accordance with ITT Clause 31.

13.8 As per the circular number FD 130 exp-12/2015, dated 8th September 2015, issued by Finance department, Government of Karnataka: EMD is exempted if "Micro and small enterprises registered with NSIC under a single point vendor registration scheme".

14. Period of Validity of Tenders

14.1 Tenders shall remain valid for 90 days after the deadline for submission of tenders prescribed by the Purchaser, pursuant to ITT Clause 17. A tender valid for a shorter period shall be rejected by the Purchaser as non-responsive.

14.2 In exceptional circumstances, the Purchaser may solicit the Tenderer's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The earnest money deposit provided under ITT Clause 13 shall also be suitably extended. A Tenderer may refuse the request without forfeiting its earnest money deposit. A Tenderer granting the request will not be required nor permitted to modify its tender.

15. Format and Signing of Tender

15.1 The Tenderer shall upload the tender along with all the requisite documents through e-tendering system by using user ID and digital signature on Technical and Financial Bids.

15.2 Any interlineations, erasures or overwriting shall be valid only if they are initialed by the persons or persons signing the tender.

D. SUBMISSION OF TENDERS

16. Submission of Tenders

16.1 All BIDDERS should submit their tenders through Karnataka public procurement portal only.

16.2 Telex, Cable or facsimile tenders will be rejected.

16.3 Tender should be submitted

1. Technical bid as per section VII qualification criteria.
2. Financial bid in the Eportal.

17. Deadline for Submission of Tenders

17.1 Tenders must be uploaded and signed as specified under ITT Clause 16 no later than the time and date specified in the Tender Schedule. In the event of the specified date for the submission of Tenders being declared a holiday, there will be no change in the date and time.

17.2 The Purchaser may, at its discretion, extend this deadline for submission of tenders by amending the tender documents in accordance with ITT Clause 5, in which case all rights and obligations of the Purchaser and BIDDERS previously subject to the deadline will thereafter be subject to the deadline as extended.

18. Late Tenders

18.1 Karnataka public procurement portal will not be accessible after the deadline and hence no late submission is possible and allowed.

19. Modification and withdrawal of Tenders:

19.1 The Tenderer may modify or withdraw its tender after the tender submission, for any number of times before the deadline for the submission of bids with no extra cost.

19.2 No tender may be modified subsequent to the deadline for submission of tenders.

19.3 No tender is allowed for withdrawal in the interval between the deadline for submission of tenders and the expiration of the period of tender validity specified by the Tenderer on the Tender Form. Withdrawal of a tender during this interval may result in the Tenderer's forfeiture of its earnest money deposit, pursuant to ITT Clause 13.7.

E. TENDER OPENING AND EVALUATION OF TENDERS

20 Opening of Tenders by the Purchaser

20.1 The Purchaser will open all technical bids submitted through Karnataka public procurement portal.

20.2 In the event of the specified date of Tender opening being declared a holiday for the Purchaser, the tenders shall be opened at the appointed time and location on the next working day.

20.3 The BIDDERS' names, tender modifications or withdrawals, and the presence or absence of requisite tender security and such other details as the Purchaser, at its discretion, may consider appropriate, will be announced at the opening.

20.4 The Purchaser will open the technical bid in Karnataka public procurement portal.

21 Clarification of tenders

21.1During evaluation of tender, the purchaser may, as its discretion, ask the tenderer for clarification of its tender. The request for clarification and response shall be in writing and no change in prices or substance of the tender shall be sought, offered or permitted.

22. Preliminary Examination

22.1 The Purchaser will examine the tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed and uploaded, and whether the tenders are generally in order. Tenders from Agents, without proper authorization from the manufacturer as per Section XIII, shall be treated as non-responsive.

Where the Tenderer has quoted for more than one schedule, if the tender security furnished is inadequate for all the schedules, the Purchaser shall take the price tender into account only to the extent the tender is secured. For this purpose, the extent to which the tender is secured shall be determined by evaluating the requirement of tender security to be furnished for the schedule included in the tender (offer) in the serial order of the Schedule of Requirements of the Tender document.

22.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the lower of the two will prevail. If the Supplier does not accept the correction of errors, its tender will be rejected and its earnest money deposit may be forfeited.

22.3 The Purchaser may waive any minor informality or non-conformity or irregularity in a tender which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any Tenderer.

22.4 Prior to the detailed evaluation, pursuant to ITT Clause 23, the Purchaser will determine the substantial responsiveness of each tender to the tender documents. For purposes of these Clauses, a substantially responsive tender is one which conforms to all the terms and conditions of the tender documents without material deviations. Deviations from or objections or reservations to critical provisions such as those concerning Performance Security (GCC Clause 6), warranty (GCC clause 14), force majeure(GCC clause 24) limitation of liability(GCC clause 28), Applicable law (GCC Clause 30), and Taxes & Duties (GCC Clause 32) will be deemed to be a material deviation. The Purchaser's determination of a tender's responsiveness is to be based on the contents of the tender

itself without recourse to extrinsic evidence.

22.5 If a tender is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Tenderer by correction of the non-conformity.

22.6 However, if any further supportive documents to already submitted records are required by the purchaser to fulfill the eligibility criteria, the purchaser may call for additional documents from some BIDDERS or all the BIDDERS.

23. Evaluation and Comparison of Tenders

23.1 The Purchaser will evaluate and compare the tenders which have been determined to be substantially responsive, pursuant to ITT Clause 22 for each schedule separately. No tender will be considered if the complete requirements covered is not included in the tender.

23.2 The purchaser`s evaluation of a tender will exclude and not take into account

a) In case of goods manufactured in India or goods of foreign origin already located in India, sales and other similar taxes which will be payable on the goods if a contract is awarded to the tenderer.

b) Any allowance for price adjustment during the period of execution of the contract if provided in tender.

23.3 The purchaser`s evaluation of a tender will take into account, in addition to the tender price and price of incidental services the following factors in the manner and extent indicated in ITT clause 23.4 and in the technical specifications;

a) cost of inland transportation, insurance and other costs with in India incidental to the delivery of the goods to their final destination

b) delivery schedule offered in the tender

c) deviations in payment schedule from that specified in the special conditions of contract.

d) the cost of components, mandatory spare parts and service;

e) the availability in India of spare parts and after-sales services for the goods / vehicles offered in the tender;

f) the projected operating and maintenance costs during the life of the vehicles; and

g) the performance and productivity of the vehicles offered.

23.4 Pursuant to ITT clause 23.3 one or more of the following evaluation methods will be applied.

a) Inland transportation, insurance and other incidentals

i) Inland transportation, insurance and other incidentals for delivery of goods to the final destination as stated in ITT clause 9.2 (iii) the above costs will be added to the tender price.

b) deleted.

c) deleted.

d) deleted.

24 Contacting the purchaser

24.1 Subject to ITT clause 21, no tenderer shall contact the purchaser on any matter relating to the tender, from the time of tender opening to the time contract is awarded. If the tenderer wishes to bring additional information to the notice of the purchaser, it should do so in writing.

24.2 Any effort by the tenderer to influence the purchaser in its decisions on tender evaluation, tender comparison or contract award may result in rejection of tenderer`s tender

F.AWARD OF CONTRACT

25. Post qualification;

25.1 The Purchaser will determine to its satisfaction whether the Tenderer that is selected as having submitted the lowest evaluated responsive tender meets the criteria specified in ITT Clause 11.2 and is qualified to perform the contract satisfactorily.

25.2 The determination will take into account the Tenderer's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT Clause 11, as well as such other information as the Purchaser deems necessary and appropriate.

25.3 An affirmative determination will be a prerequisite for award of the Contract to the Tenderer. A negative determination will result in rejection of the Tenderer's tender, in which event the Purchaser will proceed to the next lowest evaluated tender to make a similar determination of that Tenderer's capabilities to perform the contract satisfactorily.

26. Award Criteria;

26.1 Subject to ITT Clause 28, the Purchaser will award the Contract to the successful Tenderer whose tender has been determined to be substantially responsive and has been determined as the lowest evaluated tender, provided further that the Tenderer is determined to be qualified to perform the Contract satisfactorily.

26.2 If L1 bidder steps down/fails to implement the project, actions will be initiated as per ITT Clause 13.7

27. Purchaser's right to vary Quantities at Time of Award

27.1 The Purchaser reserves the right at the time of Contract award to increase or decrease by up to 25 % of the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

28. Purchaser's Right to Accept Any Tender and to Reject Any or All Tenders

28.1 The Purchaser reserves the right to accept or reject any tender, and to annul the tendering process and reject all tenders at any time prior to contract award, without thereby incurring any liability to the affected Tenderer or Tenderers.

29. Notification of Award

29.1Prior to the expiration of the period of tender validity, the Purchaser will notify the successful tenderer, in writing by registered letter or by cable/telex or Fax or e-mail, that its tender has been accepted.

29.2The notification of award will constitute the formation of the Contract.

29.3 Upon the successful Tenderer’s furnishing of performance security pursuant to ITT Clause 31, the Purchaser will discharge its earnest money deposit at unsuccessful tenderer, pursuant to ITT Clause 13.

29.4If, after notification of award, a Tenderer wishes to ascertain the grounds on which its tender was not selected, it should address its request to the Purchaser. The Purchaser will promptly respond in writing to the unsuccessful Tenderer.

30 Signing of Contract

30.1At the same time as the Purchaser notifies the successful tenderer that its tender has been accepted, the Purchaser will send the Tenderer the Contract Form provided in the tender documents, incorporating all agreements between the parties.

30.2Within 21 days of receipt of the Contract Form, the successful Tenderer shall enter into an agreement with the Purchaser on Stamp Paper, stamp paper value should as be as per government of Karnataka act (being First party as Purchaser& Second party as Supplier) and return to the Purchaser.

31 Performance Security

31.1 Within 21 days of the receipt of notification of award from the Purchaser, the successful Tenderer shall furnish the performance security in accordance with the General Conditions of Contract (GCC Clause 6.1), in the Performance Security Form provided in the tender documents or in another form acceptable to the Purchaser.

31.2 Failure of the successful Tenderer to comply with the requirement of ITT Clause 30.2 or ITT Clause 31.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the earnest money deposit, in which event the Purchaser may make the award to the next lowest evaluated Tenderer or call for new tenders.

32. **Corrupt and fraudulent practices**.

32.1 The Government requires the tenderers/suppliers/contractors observe the highest standard of ethics during the procurement and execution of Government financed contracts. In pursuance of this policy, the Government

a) defines, for the purpose of this provision, the terms set forth as follows.

i) "corrupt practice'' means offering, giving, receiving or soliciting of any thing of value to influence the act of public official in the procurement process or in the contract execution and

ii) "fraudulent practice'' means misrepresentation of facts in order to influence a procurement process or the execution of the contract to the detriment of the Government and includes collusive practice among the tenderers (prior to or after tender submission) designed to a established prices at artificial non competitive levels and to deprive the Government of the benefits of free and open competition-

b) will reject a proposal for a award if it determines that the tenderer recommended for the award has engaged in corrupt or fraudulent practices in competing for contract in question:

c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Government financed contract if it any other time determines that the firm has engaged incorrupt or fraudulent practices in competing for, or in executing a Government financed contract.

32.2 furthermore tenderers shall be aware of the provision stated in sub-clause 4.4 and sub-clause 23.1 of the general conditions of the contract

33. Bidders will be debarred as per the KTPP act.

34. Any Bidder from a country which shares a land with India will be eligible to bid in this tender only if the Bidder is registered with the Competent Authority.

SECTION III: GENERAL CONDITIONS OF CONTRACT

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28	Governing language
29	Applicable law
30	Notices
31	Taxes and Duties
32	Debarment/Black listing

1. Definitions:

1.1 In this Contract, the following terms shall be interpreted as indicated:

(a) The Contract means the agreement entered into between the Purchaser and the Supplier as recorded in the Contract Form signed by the parties including all the attachments and appendices thereto and all documents incorporated by reference therein;

(b) The Contract Price means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;

(c) The Goods" means all the vehicles, machinery, and/or other materials which the Supplier is required to supply to the Purchaser under the Contract;

(d) Services means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the Contract;

(e) GCC means the General Conditions of Contract contained in this section.

(f) SCC means the Special Conditions of Contract.

(g) The Purchaser means the organization purchasing the Goods, as named in SCC.

(h) The Purchaser's country is the country named in SCC.

(i) The Supplier means the individual or firm supplying the Goods and Services under this Contract.

(j) The Government means the Government of Karnataka State.

(k) The Project Site, where applicable, means the place or places named in SCC.

(l) Day means calendar day.

2. Application:

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

3. Standards

3.1 The Goods delivered under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the goods country of origin and such standards shall be the latest issued by the concerned institution.

4. Use of Contract Documents and Information; Inspection and Audit by the Government

4.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

4.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated in GCC Clause 4.1 except for purposes of performing the Contract.

4.3 Any document, other than the Contract itself, enumerated in GCC Clause 4.1 shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

4.4 The supplier shall permit the Government to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the Government, if so required by the Government.

5. Patent Rights;

5.1 The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.

6. Performance Security

6.1 Within 21 working days of receipt of the notification of contract award, the supplier shall furnish performance security to the purchaser for an amount of 5% of the contract value, which shall be valid up to 60 days after the date of completion of warranty obligations. In the event of any corrections of defects or replacement or replacement of defective material during the warranty period, the warranty for the corrected/ replaced material shall be extended till the warranty period.

6.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

6.3 The Performance Security shall be denominated in Indian Rupees and shall be in one of the following forms:

a. A Bank guarantee, issued by a nationalized/scheduled bank in the form provided in the tender documents or another form acceptable to the Purchaser; or
b. A cashier's cheque or Banker's certified cheque, or crossed demand draft or pay order drawn in favour of the Purchaser.; or
c. Specified small savings instruments duly pledged to the Purchaser.

6.4 The Performance Security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including any Warranty obligations under the contract.

6.5 In the event of any contract amendment, the Supplier shall, within 20 days of receipt of such amendment, furnish the amendment to the Performance Security, renderingthe same valid for the duration of the Contract as amended for 60 days after the completion of performance obligations including Warranty obligations.

7.**Inspections and Tests**

7.1 The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser. SCC and the Technical Specifications shall specify what inspections and tests the Purchaser requires and where they are to be conducted. The Purchaser shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes

7.2 The inspections and tests may be conducted on the premises of the Supplier, before the delivery and or at the goods to the final destination. If conducted on the premises of the

Supplier, all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no charge to the Purchaser.

7.3 Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.

7.4 The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Project Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.

7.5 Nothing in GCC Clause 7 shall in any way release the Supplier from any warranty or other obligations under this Contract.

7.6 Manual and drawings

7.6.1 Before the goods and vehicles are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals together with drawings of the goods and vehicles. These shall be in such detail as will enable the Purchaser to operate, maintain, adjust and repair all parts of the vehicles as stated in the specifications.

7.6.2 The manuals and drawings shall be in the ruling language (English) and in such form and numbers as stated in the contract.

7.6.3 Unless and otherwise agreed, the goods and vehicles shall not be considered to be completed for the purpose of taking over until such manuals and drawings have been supplied to the Purchaser

7.8 Acceptance Certificates:

7.8.1 On successful completion of acceptability test, receipt of deliverables etc, and after the purchaser is satisfied with the working of the system, the acceptance certificate signed by the supplier and the representative of the purchaser will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the systems.

8. Packing

8.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

8.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified in SCC and in any subsequent instructions ordered by the Purchaser.

8.3 Packing Instructions: The Supplier will be required to make separate packages for each Consignee. Each Package will be marked on three sides with proper paint/indelible ink the following:

i)Project, ii) Contract No., iii) Suppliers Name, and iv) Packing List Reference number.

9. Delivery of service and Documents

9.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified by the Purchaser in the Notification of Award. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.

10. Insurance

10.1 The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. For delivery of goods at site, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War risks and strikes.

11. Transportation

11.1 Where the Supplier is required under the Contract to transport the Goods to a specified place of destination within Karnataka defined as Project site, transport to such place of destination in Karnataka including insurance, as shall be specified in the Contract, shall be arranged by the Supplier, and the related cost shall be included in the Contract Price

12. Incidental Services

12.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

(a) performance or supervision of the on-site assembly and/or start-up of the supplied Goods;

(b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;

(c) furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods;

(d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and

(e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods.

12.2 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

13. Spare Parts

13.1 Clause deleted.

14. Warranty

14.1 The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the Purchaser's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

14.2 This warranty shall remain valid for 3 years after the Goods or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, or for

26 months after the date of shipment from the place of loading whichever period concludes earlier. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion either:

(a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC Clause 2; OR

(b) pay liquidated damages to the Purchaser with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be as specified in the Technical Specifications.

14.3 The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.

14.4 Upon receipt of such notice, the Supplier shall, within the period of 7days and with all reasonable speed, repair or replace the defective Goods or parts thereof, free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever, shall lie on the Purchaser for the replaced parts/goods thereafter. In the event of any correction of defects or replacement of defective material during the Warranty period, the Warranty for the corrected or replaced material shall be extended to a further period of 12 months.

14.5 If the Supplier, having been notified, fails to remedy the defect(s) within 7 days, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

14.6The supplier shall guarantee a 90% uptime of vehicles.

14.7If any vehicles gives continuous trouble, say 6 months during the warranty period, the supplier shall replace the with new vehicles without any additional cost of the purchaser.

14.8<u>Maintenance and service</u>

i) Free service shall be provided by the supplier during the period of warranty.
ii) During the warranty and maintenance period the maximum time for maintenance complaint from any of the destinations the schedule Service level Agreement will be applicable as specified below.

Sl. No.	**Services**	**Time limit and penalties**
1	Service support should be available on all the working days of the Government	Sundays and General Holidays exempted
2	Time limit for servicing the vehicles	Within 10 Days
3	The time taken for servicing will be calculated from the time the vehicles is brought to the service station after logging the call, to the time the issue is resolved. Government holidays will be excluded.	
4	Penalty clause for of delay in Service	a. Upto fifteen days-Nil b. Next fifteen days (i.e. 16th day to 30th day)- Rs. 500 per day c. Next fifteen days (i.e. 31st day to 45 day)- Rs. 800 per day.

5	If the vendor fails to service/replace the vehicles.	An amount equivalent to double the quoted/accepted price of the vehicle will be charged to the vendor.

The vendor needs to provide the following services:

a) The vendor is also required to provide a toll-free number with adequate lines so that the complaints about non-functioning of vehicles.
b) The vendor shall have service centers in Bangalore and each of these service centers must be staffed sufficient number of staff. The supplier shall provide the contact numbers of the Service Stations to the beneficiaries.
c) It is expected that the average downtime of the system will be less than half the maximum downtime (i.e defined as number of days for which An item of the vehicles is not usable because of inability of the supplier to repair it) as mentioned in the form of technical details . In case an item is not usable beyond the stipulated maximum downtime, the supplier will be required to arrange for an immediate replacement of the same till it is repaired. Failure to arrange for the immediate repair/replacement will be liable for a penalty of Rs 500/- per day per item. The amount of penalty will be recovered from the performance security guarantee during warranty period.
d) The purchaser reserves all rights to terminate maintenance and repair contract after warranty period at any time without assigning any reason and supplier cannot claim any compensation in this respect.

15. Payment

15.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in the SCC.

15.2 The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to GCC Clause 9, and upon fulfilment of other obligations stipulated in the contract.

15.3 Payments shall be made promptly by the Purchaser but in no case later than sixty (60) days after submission of the invoice or claim by the Supplier.

Sl.No	Payment	Amount payable
1	After receiving stock certificate and post delivery reports regarding proper functioning of the vehicles, RTO documents with vehicle registration number and insurance copy.	As per delivery schedule

15.4 Payment shall be made in Indian Rupees.

16. Prices

16.1 Prices payable to the supplier as stated in the contract shall be firm during the performance of the contract.

17. Change Orders

17.1 The Purchaser may at any time, by written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the Contract in any one or more of the following:

(a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;

(b) the method of shipping or packing;

(c) the place of delivery; and/or

(d) the Services to be provided by the Supplier.

17.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made

in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Purchaser's change order.

18. Contract Amendments

18.1 Subject to GCC Clause 17, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

19. Assignment

19.1 The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

20. Subcontracts

20.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the tender. Such notification, in his original tender or later, shall not relieve the Supplier from any liability or obligation under the Contract. Sub-contracts shall be only for bought out items and sub-assemblies.

20.2 Subcontracts must comply with the provisions of GCC Clause 2.

21. Delays in the Supplier's Performance

21.1 Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser in the Schedule of Requirements.

21.2 If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.

21.3 Except as provided under GCC Clause 24, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of liquidated damages.

22. Liquidated Damages

22.1 Subject to GCC Clause 24, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5% of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of 10% of the Contract Price.. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause 23.

23. Termination for Default

23.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

(a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 21; or

(b) if the Supplier fails to perform any other obligation(s) under the Contract.

(c) If the Supplier, in the judgement of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this Clause :

"Corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.

“fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

23.2 In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 23.1, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

24. Force Majeure

24.1 Notwithstanding the provisions of GCC Clauses 21, 22, 23, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

24.2 For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

24.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

25. Termination for Insolvency

25.1 The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

26. Termination for Convenience

26.1 The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

26.2 The Goods that are complete and ready for shipment within 30 days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

(a) to have any portion completed and delivered at the Contract terms and prices; and/or

(b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

27. Settlement of Disputes

27.1 Amicable Settlement: Save where expressly stated to the contrary in this agreement, any dispute, difference, or controversy of whatever nature between the parties, how so ever arising under, out of or in relation to this agreement, shall in the first instance be attempted to be resolved amicably by meetings between the parties.

27.2 Place of Jurisdiction

All the matter pertaining to court will be at Bangalore Jurisdiction only.

28. Limitation of Liability

28.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement pursuant to Clause 5,

(a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser; and

(b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective vehicles.

29. Governing Language

29.1 The contract shall be written in English language. Subject to GCC Clause 30, English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

30. Applicable Law

30.1 The Contract shall be interpreted in accordance with the laws of the Union of India.

31. Notices

31.1 Any notice given by one party to the other pursuant to this Contract shall be sent to other party in writing or by cable, telex or facsimile and confirmed in writing to the other Party's address specified in SCC.

31.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

32. Taxes and Duties

32.2 Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser.

33. Debarment/Black listing:

32.1 The BBMP reserve the right to black-list debar any bidder/supplier due to any act of omission or commission or fraudulent act indulged or caused to be indulged by such bidder/supplier in the course of bidding process and/or in the execution or performance of any contracts which may be awarded to the bidder/supplier pursuant to the tender provided however, that the department shall be obliged to allow on opportunity of being heard to such bidder/supplier before any order of black-listing/debarment could be passed any such order of black-listing/debarment that may be passed by the department shall be without prejudice to other rights of actions available to the department against the bidder/supplier under the tender terms & conditions.

SECTION IV: SPECIAL CONDITIONS OF THE CONTRACT

Table of clauses

Item Number	Topic
1	Definitions(GCC clause 1)
2	Inspection and tests (GCC clause 7)
3	Delivery and documents ((GCC clause 9)
4	Incidental services(GCC clause 12)
5	Payment(GCC clause 14)
6	Settlement of disputes(GCC clause 26)
7	Notices(GCC clause 30)
8	Progress of supply
9	Right to use defective vehicles
10	Supplier integrity
11	Supplier1s obligations
12	Patent rights
13	Site preparation and installation
14	Hardware Installation
15	Hardware maintenance
16	Training
17	Technical documentation

SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the General Conditions is indicated in parentheses.

1. Definitions (GCC Clause 1)

(a) The purchaser is CHO(PH) BBMP.

(b) The Supplier is the successful L1 bidder.

2. Inspection and Tests (GCC Clause 7)

Inspection and tests prior to shipment of Goods and at final acceptance are as follows:

(i) Pre delivery inspections

As and when the vehicles are ready for shipment, the second party should notify the first party in writing, the location of the project where the vehicles are ready for inspection. The First party shall get it tested from an agency/officer which it deems fit to get it done at the cost of first party. The first party may get the pre delivery inspection either at the place it is ready for dispatch, or at the place, which the first party may notify any place in Bangalore for pre delivery inspection. The second party agrees to make the items ready for delivery for such inspections as desired above.

(ii) Third party inspection: Third party inspection will also be conducted as per KTPP act.

3. Delivery and Documents (GCC Clause 9)

Upon delivery of the Goods, the supplier shall notify the purchaser and the insurance company by email/cable/telex/fax the full details of the shipment including contract number, railway receipt number and date, description of goods, quantity, name of the consignee etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company:

(i) Four Copies of the Supplier invoice showing contract number, goods' description, quantity, unit price, total amount;

(ii) Railway receipt/acknowledgment of receipt of goods from the consignee(s);

(iii) Four Copies of packing list identifying the contents of each package;

(iv) Insurance Certificate;

(v) Manufacturer's/Supplier's warranty certificate;

(vi) Inspection Certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and

The above documents shall be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

4. Incidental Services (GCC Clause 12)

4.1. The following services shall be furnished and the cost shall be included in the contract price:

4.1.1. Unloading, safe storage and handling of the consignment at site.

4.1.2. Performance of the on-site assembly, commissioning and start-up of the vehicles.

4.1.3. Furnishing the detailed operation and maintenance manuals for each items of supply at each location.

4.1.4. Training of the Purchaser's personnel at the installation site.

4.1.5. Maintenance and repair of the vehicles at each location during the warranty period of 3 year.

4.1.6. : **CMC**

Clause deleted.

4.1.7. **CMC**

The Clause deleted.

5. Payment (GCC Clause 14)

(i) The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods supplied, and by documents, submitted pursuant to GCC Clause 6 & 7, and upon fulfillment of other obligations stipulated in the contract.

Payment shall be made in Indian Rupees.

Sl.No	Payment	Amount payable
1	After receiving stock certificate and post-delivery reports regarding proper functioning of the vehicles with signature, RTO documents with vehicle registration number and insurance copy.	As per Delivery schedule.

6. Settlement of Disputes (GCC Clause 26)

6.1 Amicable Settlement

Save where expressly stated to the contrary in this agreement, any dispute, difference or controversy of whatever nature between the parties, how so ever arising under, out of or in relation to this agreement, shall in the first instance be attempted to be resolved amicably by meetings between the parties.

6.2 Place of Jurisdiction

All the matter pertaining to court will be at Bangalore Jurisdiction only.

7. Notices (GCC Clause 30)

For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.

Purchaser: CHO (Public Health) BBMP.

Supplier: (To be filled in at the time of Contract signature)

.....

8. Progress of Supply:

Supplier shall regularly intimate, on day to day basis, the progress of supply, in writing, to the Purchaser as under

- Quantity offered for inspection and date;
- Quantity accepted/rejected by inspecting agency and date;
- Quantity dispatched/delivered to consignees and date;
- Quantity where incidental services have been satisfactorily completed with date;
- Quantity where rectification /repair /replacement effected/completed on receipt of any communication from consignee/ purchaser with date.

- Date of competition of entire contract including incidental services if any –and
- Date of receipt of entire payment under the contact(in case of stage wise inspection, details required may also be specified)

9. Right to use defective vehicles:

If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the vehicles proves to be unsatisfactory, the Purchase shall have the right to continue to operate or use such vehicles until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.

10. Supplier Integrity:

The supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state-of-the-art methods and economic principles and exercising all means available to achieve the performance specified in the Contract.

11. Supplier's Obligations:

i. The Supplier is obliged to work closely with the Purchaser's staff, act within its own authority and abide by directives issued by the Purchaser and implementation activities.
ii. The Supplier will abide by the job safety measures prevalent in India and will free the Purchaser from all demands or responsibilities arising from accidents or loss of life the cause of which is the Supplier's negligence. The Supplier will pay all indemnities arising from such incidents and will not hold the Purchaser responsible or obligated.
iii. The Supplier is responsible for managing the activities of its personnel or sub contracted personnel and will hold itself responsible for any misdemeanors.
iv. The Supplier will treat as confidential all data and information about the Purchaser, obtained in the execution of his responsibilities, in strict confidence and will not reveal such information to any other party without the prior written approval of the Purchaser.

12. Patent Rights:

In the event of any claim asserted by a third party of infringement of copyright, patent, trademark or industrial design rights arising from the use of the Goods or any part thereof in the Purchaser's country, the supplier shall act expeditiously to extinguish such claim. If the supplier fails to comply and the Purchaser is required to pay compensation to a third party resulting from such infringement, the supplier shall be responsible for the compensation including all expenses, court costs and lawyer fees. The Purchaser will give notice to the supplier of such claim, if it is made, without delay.

13.Technical Documentation

The technical documentation involving detailed operation and maintenance shall be delivered with every unit supplied. The language of the documentation shall be in English.

SECTION V - SCHEDULE OF REQUIREMENTS

Sl.NO	Name of the Item	Qty	EMD	Annual Turnover	Annual Turnover for MSME	80% past performance for Manufacturer	40% past Performance for MSME Manufacturer	30% past Performance of Authorized Agent	Warranty	CMC
1	Ambulance with fabrication and medical equipments as per specifications in the tender document	26	10,65,909	7,10,60,626	3,55,30,313	21	10	8	3 Years	Nil

SINO	Name of the item	Total NOs
1	Vehicle	26
	Ambulance Fabrication	26
1	Artificial Manual Breathing Unit Child & Adult	26
2	BP instrument Aneriod	26
3	Cervical collar	26
4	Extrication Tool Kit	26
5	Flow meter Humidifier bottle	26
6	Double Head immobilizers	26
7	Laryngoscope	26
8	Magills Fprceps	26
9	Monitor	26
10	Nebulizer Electric	26
11	Oxygen Cylinder D Type (02 per Ambulance)	52
12	Portable Oxygen Cylinder 2 Ltrs	26
13	Spinal Board	26
14	Stethoscope	26
15	Suction Pump	26
16	Wheel chair	26
17	Artery Forceps	26
18	Trolley Strecher Auto Loading	26

1. Delivery Schedule

1.1. Should be supplied to Referral hospitals, Maternity homes and zone Ho's public health within 45 days from the date of Supply Order.

2. Consignee Details

Detailed consignee list will be issued at the time of supply order.

SECTION VI
TECHNICAL SPECIFICATIONS

1) Vehicle specification

Specification	Sub-Specification	Tender Range of values
Generic Vehicle parameters	Type of Ambulance	Type C - Road Ambulance / Basic Life support Ambulance
	Category of Vehicle	M2
	Vehicle Engine Capacity (cc)	2100 - 2600
	Type of Fuel	Diesel
	Vehicle Emission Complaince	BS VI
	Colour of the Vehicle	White
	Vehicle Mileage (declared by OEM as certified by Test Agency under Rule115 of CMVR 1989) (kmpl)	13.89 - 16.10
	Top Speed (km/hr)	100 - 110
	Acceleration (0-70KmPH) in sec	19 - 21 Second
	Gradeability of Vehicle (degree)	14 - 15 degree
	Air Conditioning	NA for without AC
	Engine BHP	100 - 115 horsepower
	Rated RPM at Max Engine BHP	Minimum 2950 rpm
	Engine Torque Max (N-m)	200 - 350
	Rated RPM at Max Engine Torque	1000 - 3500 rpm
	Type of vehicle Body	Monocoque
	No of Doors	3

	Fuel Tank Capacity (liter)	60 - 70 liter
	Length of Vehicle Body (mm)	5450 - 5650 millimiter
	Width of Vehicle Body (mm)	1900 - 2000 millimiter
	Height of Vehicle Body (mm)	2500 - 2600 millimiter
	Ground Clearance (road Clearance from floor)(mm)	185 - 200 millimiter
	Wheel Base (mm)	3350 - 3488 millimeter
	Kerb Weight (kg)	2100 - 2800 Kilogram
	Gross Vehicle Weight (kg)	3450 - 4200 Kilogram
	Type of Tyre and Tube	Tubeless
	Size of Type	195R15LT 8PR / 215/75 R15 / As per OEM Design
	Vehicle Transmission System	Manual
	No of Speed/Forward Gears	5
	Type of Wheel drive	Two wheel drive
	Drive Axle	Front / Rear
	Type of Steering	Power
	Turning Radius (mm)	6500 - 6750 millimiter
	Front Vehicle Brake	Disc Brake
	Rear Vehicle Brake	Drum Brake
	Vehicle Air Intake System	Turbocharged

	Vehicle features	Vehicle Emission Compliance: BS VI, Fitted with ABS, Spare Wheel/Tyre, Low fuel warning light, Side view mirror, Tool Kit, Public Address System
Description	Description	Road Ambulance or Ambulance is a specially equipped and ergonically designed vehicle for transportation/ emergent treatment of sick or injured people and capable of providing out of hospital medical care during transit/ when stationery, commensurate with its designated level of care when appropriate staffed / Ambulance with Provisions for Medical Devices (without Equipment) as per AIS-125 (Part 1)
Ambulance Body	Patient Compartment	As per OEM standard Design approved by ARAI and CMVR norms.
	Overall Length of Patient Compartment (mm)	3100 - 3300 millimeter
	Overall width (mm) of Patient Compartment	1650 - 1700 millimeter
	Overall Length of Patient Compartment (mm)	1830 - 1950 millimeter
	Construction of patient compatibility	As per OEM standard Design approved by ARAI and CMVR norms.

	Body main structurte shape and material	NA for Monocoque
	Size of section	As per OEM standard Design approved by ARAI and CMVR norms.
	Exterior panel of side body and roof	NA for Monocoque
	Interior panel of side body	As per OEM standard Design approved by ARAI and CMVR norms.
	Interior panel of roof	As per OEM standard Design approved by ARAI and CMVR norms.
	Flooring Material	As per OEM standard Design approved by ARAI and CMVR norms.
	Openings(Dorrs, Windows, Emergency Exit)	As per OEM standard Design approved by ARAI and CMVR norms/ As per cl. 4.5 of AIS 125 Pt I
	Number of seats (including driver)	10 to 12
	Number of stretcher	1
	Min Number of patient and Attendant Seats	2
Main Equipments	Features of main stretcher	Main stretcher with an integral undercarriage

	Provision for medical devices	Mounting for portable oxygen cylinder of minimum 2.2 L water capacity, Hook for infusion mounting, Storage for keeping first aid and nursing kit
	Type of Patient handling equipment	Oxygen Cylinder Bracket, I.V. Bottle Hanging Hook, First Aid Box in side of rear saloon, Siren, Fire extinguishers as per AIS-125 (Part 1)
	Ambulance Features	Medical cabinet in side of rear salon, roof revolving light, siren/ Oxygen Cylinder Bracket, I.V. Bottle Hanging Hook, First Aid Box in side of rear saloon, Siren, Fire extinguishers as per AIS-125 (Part 1)
Electrical Requirement	Additional Electric load of medical Equipment"s permissible (watts)as oer AIS 125(Part-1)	0 watt
	Number of battery(ies) provided other than the vehicle battery	NA / 1
	Additional battery capacity	As per OEM standard Design approved by ARAI and CMVR norms.

	Min number of 12V connections for medical devices in patients compartment	NA
	Min no of 220V AC power supply connection for medical devices in patients compartment	NA
Environment Testing	Environment testing compliance	Flammability Test as per IS 15061: 2002 (as applicable),Interior fitting compliance as per AIS-047 established, Acceleration Test (Clause 4.2.1 per AIS 125 Pt I and IS:11851-2002) Compliance, Water Proofing Test (IS:11865-1995) Compliance,Dust Ingress Test (IS:11739-1997) Compliance
	Additional features for COVID 19 ambulance	As per OEM standard Design approved by ARAI and CMVR norms.
	Warranty time(months)	3 year
	Warranty distance(or warranty time, whichever earlier)(km)	300000 kilometer
	Battery warranty(months)	12 month
	No of Free service during warranty	3 - 6 Nos

Certification	Application GSR 287(E),central motor vehicles(4th amend) rules, 2015 and ambulance code(latest)	AIS-125 (Part 1) : Constructional and Functional Requirements for Road Ambulances with all amendments till date.
	Certification	complete vehicle
	Vehicle Certification	ARAI / ICAT
	Vehicle certification ARAI/VRDE/ICAT/CIRT/NATRAX No	COTS 0198 dated 28/02/2024 or AASN 0369 F02 (Any one)

Vehicle Fabrication, Specification

Interior fabrication and exterior designing of ambulances:

1	Fabrication of Ambulance, – with ABS (FR grade) Interior panels, provision to store 2nos. D-type oxygen cylinders, With hatrack on Left hand side, Top storage rack Medical cabinet 2'x2'x 5.5' w/SS on top, Attendant seat 1200L x 550w x 450H, Wash basin and dustbin-2nos., Waste water tank and Fresh water tank SS –304 10ltrs capacity. Provision for Installation of Medical Equipment with Internal wiring.
2	Bar light with blinkers and flood light: AIS 125 standard-
3	Air conditioning Unit:
4	Supply of required capacity of UPS

5	Radium stickering as per BLS 125 standard.

The detailed Technical Specifications are as below:

Scope of Fabrication work

1) General Vehicular Design and Floor Plans

2) Patient Compartment

Patient compartment volumetric space shall be sufficient in size to transport occupants and accommodate / store all equipment & fitments as specified.
The length of the patient compartment measured from partition to the inside edge of the rear loading door at the floor level shall be atleast 310cm.
The length should provide at least 64 cm and not more than 76 cm of un obstructed space at the head of the primary patient, when measured from the face of the backrest of the Doctor's/Paramedic's Seat to the forward edge of the stretcher.
The minimum width of the compartment shall be not less than 1500mm and should provide 46 ± 15 cm clear aisle walkway between stretcher / cot and the base of squad bench, with the cot located in the street side (non-centered) position.

The patient compartment shall provide at least 152 cm height over the primary patient area, measured from floor to ceiling panels.

An access window between Driver's Cabin and Patient Compartment should be provided at appropriate location for visual checks and voice communication between the cabin and patient compartment. This window should be latch able from the patient cabin side and should be transparent, shatter proof and shall have adjustable opening. Complete interior paneling of the sidewalls, partition between patient cabin and driver cabin, roof (of both patient and driver cabin) &back door panels should made from long life superior quality Fiber Reinforced Polymer (FRP) or ABS. (not applicable for Sandwich Panel Fabrication) The FRP (fiber glass laminate) /ABS Polymer (Acrylonitrile, Butadiene & Styrene) wherever used, should have the following characteristics:

- Thickness–minimum4.0mmforFRPor3.0mmforABS
- In built colour
- Fire retardant as per IS-6746 of 1988 or latest
- Should meet lamination standard IS-10192 or latest

There should be PUF / PU min. 12 mm thick or thermocol min. 40mm thick or equivalent insulation for reduction of heat and noise within the patient compartment. The insulating material should be non-toxic, non-settling type, vermin proof, mild dew proof and non-hygroscopic.

Sufficient reinforcement for holding the wall mounted equipment securely while in transit should be built into the side walls . Unobstructed access & full functionality of the fittings / equipment as required for optimal patient care must be ensured in this compartment. Adequate

provision for storage of medicines / consumables / equipment should be made by providing lockable cabinets & drawers. These should be made of fire retardant material, in sync with the ambulance's internal look and feel. The drawers should be on steel guide ways & provided with ball socket locks to arrest the drawers opening during motion of ambulance.

The floor should be finished with minimum 2mm thick two component PU coating with anti-scratch treatment or 2mm thick Anti-skid PVC vinyl matting or FRP with Anti-skid coating.

The complete interior should be edgeless and suitable for easy cleaning / scientific fumigation / treatment of disinfectants. The ambulance interiors should be designed with care to avoid injuries by fall of equipment or cylinder on persons inside the ambulance in case of turmoil due to bad road conditions. Upholstered padding/cushions shall be provided at the upper interior areas of the door frames. Similar padding/cushions also shall be furnished at other areas that may can cause injury. The finish of internal & external patient / driver cabin should meet CMVR requirements of external projection.

Door: There shall be a 'two leaf's divided rear door at the rear end of the patient compartment for entry and exit of personnel as well as loading and unloading of the ambulance cot.

This door shall not be less than 117 cm in height with minimum width of 112 cm and the door opening should be side-ways. Each door should be hinged at least at two places and should have firm latching provision. It shall be capable of being positively restrained in the open position. A "Door-Open" warning device shall signal (indicate in the cab) when doors are not closed. Each door shall have effective compression or overlapping seals to prevent leakage of exhaust fumes, dust, water, and air. When the patient compartment doors are not 270 degrees opening, a red light or reflector, minimum 7.6-cm (3-in.) diameter, shall be installed, one on the interior surface of the side of each rear door. The reflectors shall be so positioned as to provide maximum visibility when the doors are in the fully open position. The opening of the door should be possible from inside and outside always. Under no condition, during travel mode, this door should open.

The doors of the patient's compartment shall be fitted with a security system which enables the following:

- Lock and unlock from inside without use of a key;
- Lock and unlock from outside with use of a key;
- Unlock from the outside using a key when the door is locked from the inside.
- Windows: In the patient's compartment, there shall be a minimum of two full width fixed windows one on each door leaf. There shall be one openable (sliding/tilting/ roll down) window on each side wall. The windows on the rear doors and side walls should be fitted with toughened tinted glass and should be positioned and screened to ensure patient's privacy.
- A seat for the Doctor/Paramedic should be installed facing towards the rear of the patient compartment &it should be near to the primary patient's head for easy accessibility. This seat must have adequate restrains for the passenger and should be fitted with un adjustable head rest and foldable arm rests.
- A Squad bench with backrest suitable to accommodate minimum four sitting patients or folding/scoop stretcher shall be installed along the side wall. A minimum 50mm thick high-density cushion to be provided for comfort. The squad bench should be upholstered with

waterproof washable cover and should have adequate restrains for the sitting patients as well as the stretcher.

- Grab Rail made of stainless steel pipe with proper support / fixing, for ease in entering shall be installed in the ceiling. Minimum two IV hooks / holders to be provided at suitable locations to ensure proper patient care.

- A washbasin with foot-operated tap should be provided at a suitable location. A fresh water tank of minimum 10litres capacity for the wash basin, with a provision for easy refilling should be installed, and drain water tank of 15liters, both made of Stainless Steel (0.8 mm SS 304 grade) should be fitted below the wash basin. Wash basin and Drain water tank hose connection joints to be fixed firmly with clamp and sealant to prevent water over flow into the patient compartment.

- There should be a soap dispenser and tissue dispenser provided near the washbasin.

- A reliable, robust &easy to use Sterillium / Bactorub / equivalent alcohol based hand rub dispenser supporting standard off the shelf bottles of minimum 500ml capacity should be provided at a suitable location which should be within easy reach of the doctor / paramedic.

- Concealed portable dust bins with spring loaded lids for waste disposal should be provided at suitable locations.

- A "2-way intercom phone" to enable easy communication between the patient &driver cabin should be provided. This instrument should be in the patient compartment at a location within the easy reach of the doctor/paramedic. The instrument in the driver cabin should be located at an optimal location. These instruments should have adequate restrains to not dislodge/fall during travel.

- A battery powered 'thermo-electric cooler cum warmer' of minimum 12 litres capacity and capable of running on 12 volts DC should be provided at a suitable place. This should allow for a temperature control from approx. -5°C to + 60°C at +25°C ambient, step-lessly controlled with two thermostats and should be secured firmly to ensure it doesn't move in the patient cabin during travel.

Two numbers of multipurpose fire extinguishers of ABC Type (ISI marked &conforming to BIS: 13849-1993 or latest) duly filled, of capacity and quantity as per the provisions of Central Motor Vehicle Rules 1989 should be provided. One fire extinguisher shall be placed in the Driver's cabin and the second in patient's compartment, at appropriate location, where it is easily visible and symbolized.

All fitments/equipment/outlets/switches/storage spaces, etc in the patient compartment should be permanently & clearly labelled in English. The font used should be easily readable and in contrasting colour of the background.

Steel and Ply Wood Cabinet for storing medical equipment / supplies / Washbasin / Dustbins

Dimensions: length to cover the width of fabricated ambulance end to end Width = 1645mm and

height=910mm.Placed alongside the partition wall behind the driver's compartment.

Made of BIS quality water, rodent & insect proof and fire-retardant ply boards of

- Walls, Top and Bottom plywoodthickness-20mm
- Drawers plywoodthickness-13mm
- It should be cladded with 0.8 mm thick stainless sheet (SS-304) from all the
- areas exposed to patient compartment sides.
- Also, all the other areas (drawer walls, sides, rear and bottom) exposed to air should be
- Laminated with minimum1mm heavy duty mica of silver gray colour.
- All the Sizes of the drawers should be as per Drawings supplied.
- Height of the cabinet-510mm (from above the oxygen compartment)
- Width of the cabinet-1645mm (From left wall to Right wall of the body)
- First lane drawers width-515mm with one door (for dust bins and fresh and drain
- Water tanks)
- Second lane drawer width-290mm Three rows on vertical with equal size
- Third lane Drawer width-550 Single door with EMT seat back rest. One partition to be made @height of 300mm from bottom of the wooden cabinet (With a provision of auto lock mechanism for avoid drawers open while in running)
- Fourth Lane drawer's width- 290 two rows. Top-170mm height- Second-rest of the height
- All the hardware like rails, channels, sliders, locks, catchers, hinges, handles should be best quality of branded material (heavy duty renowned brands).
- House the Stainless Steel (SS-304) wash basin minimum 410MM diameter, maximum of 420 diameter Depth minimum165MM maximum 170mm with water taps (Brass with chrome plated) supplying water through Motorized Pump (12 V DC power operated), with foot operated control mounted on the bottom of the medicine rack vertically, to pump the water from the fresh water tank.
- The Wash Basin Pump should have water tap positioned so that by washing hands, water should not fall outside the basin.
- Provision for Liquid hand wash carrier to be fitted on to the left side of the wall near wash basin with sufficient reinforcement (Refer Drawing). Liquid should fall directly in to basin when pressed.

- Fresh water tank (10 liters) and drain water tank (15 liters) both made of Stainless Steel (0.8mm SS304grade) to be fitted below the wash basin.
- Wash basin and Drain water tank hose connection joints to be fixed firmly with clamp and seal ant to prevent water overflow into the patient compartment.
- The drawers should be provided with double Magnet catchers for each drawer at back side to secure them against unintended opening during motion of the ambulance.
- 9 slots of ABS material, removable partition tray with THREE partitions to be provided in the upper drawer beside the dust bins and rest all the drawers to have 3 horizontal partitions.
- A plywood with lamination tray with 9 slots (530mm length 300mm width 130mm height) to be fixed on the right side of the wooden cabinet.
- Leather stitched Velcro mounting to be provided to secure needle destroyer and manual BP apparatus over the right side of the wooden cabinet.
- Appropriate number of concealed colour coded bins to segregate / collect and dispose Bio-Medical Waste, as per Bio-Medical Waste Management Rules 2016. The Bins should be fixed, should have spring loaded lids, and immobile to prevent it from fall during movement of the vehicle.
- Pilot cabin partition frame in place of no vapon to be made in 25x25x0.8 mm thick mild steel tube of prime quality, with a sandwich FRP panel to be fastened to the MS frame from both sides.
- Pilot cabin partition to be provided with window (which is supplied by bare vehicle) (size 850mm width 420 mm height) with two sliding glass with proper beadings in centre of the Partition.

3) **Oxygen Delivery System**

The ambulance shall have piped medical oxygen system (manifold) capable of storing and supplying medical grade oxygen. Cylinders should be changeable from outside the patient compartment.
These cylinders should be individually connected to a pressure regulator each in such a way that one-cylinder acts on duty and the other as a stand-by. Both these regulators should reduce the cylinder pressure to a static outlet pressure of 4.12 bars / 60 psi and should include a safety relief valve and a locking mechanism to prevent settings from being inadvertently changed. It should maintain accurate readings and calibrations during ambulance operation and not be affected by the temperature conditions.
Changing from one cylinder to the other should not affect the distribution pressure in any way and this change over should occur with manual or automatic operation of single valve. The inlet port of the regulator should be connected to both the cylinders in parallel using two nos. Of ball vales, allowing any of the cylinders to be in line or of line with the cylinder at any point of time without closing the individual cylinder valves.
The patient cabin must have a display panel for oxygen supply status. The display panel should be certified for use with Medical Oxygen and should have three individual display windows to

constantly indicate the pressure level of both the cylinders as well as the distribution pressure level. The digital displays should show the actual pressure measured by three individual digital pressure sensors as per the pressure level under monitoring (one each for both the cylinders and one for the line pressure).

The connections of the high-pressure regulator, isolation valve, high & line pressure sensors, high-pressure connecting hose from cylinder to high-pressure regulator, low-pressure hose from the outlet of the high-pressure regulator to the terminal outlet block should be connected to each other using high pressure flexible connectors. There should be no welded joints in the entire connection assembly of the oxygen distribution system. The manifold should be so designed that it shall ensure proper fixation of cylinders during travel and should ensure easy cylinder changing and positioning. There should not be any electrical connection in near vicinity or inside the oxygen cylinder housing, except pressure regulator integrated with flow control valve.

Minimum two oxygen outlets for the primary patient, flush with right side wall or fitted flush on an outlet panel board near the primary patient's head end (distance between patient head and oxygen / air outlets to be less than 89cm) to be provided - one outlet normally meant for Oxygen therapy through flow meter &one meant for driving breathing equipment like ventilators, etc.

These duplex outlet stations shall be appropriately labelled, and colour coded as per IS standards to indicate their use with medical grade oxygen. Oxygen outlet stations shall be installed with sufficient vertical space to accommodate attachment of flow meters, humidifiers, and nebulizers. There shall also be sufficient horizontal clearance to prevent interference with the suction inlet quick- disconnect if any and equipment directly attached there to The oxygen outlets should be universal in design to be able to accommodate the probe of the oxygen flow-meter and the probe of the driving gas hose of the ventilator directly in one single action without any intermediate connectors and adapters.

A door for the Trolley to be cut (as per drawing) and fabricated with bonnet type locking with an opening lever in the driver compartment (with MS reinforced FRP)

ii) The Door opening lever should be below the driver seat with flexible wire cage which is firm and flexible without steepened-route.

iii) The Cylinder compartment should be properly sealed from all sides along with the Door side to protect and avoid any chances of dust entering this compartment. Rubber beading to be provided on compartment (door seating area).

iv) This trolley should be designed with M.S. angle frames 40x4 to hold two D Type Oxygen cylinders (each could independently be taken out), under medicine cabinet securely with a toggle clamp for fastening, Safety lock to be provided to prevent accidental opening of toggle clamp. Reliable and durable locking/unlocking the trolley and cylinders on trolley with auto locking provision to be provided. Oxygen cylinder covering brackets top and bottom should be riveted with as best os material for cylinder grip to avoid movement and noise in running

v) High Pressure Tubing: 280 bar/ 4060 psi test pressure, with male /female (5/8 inches) bull nose Brass connectors (Only Drop forged brass connectors to be used) at both the ends, to connect it from the oxygen cylinder to the pressure regulator inside the patient cabin;2No's each of 2meters length;

vi) Preset Pressure Gauge cum two stages Regulator, with static outlet pressure, first stage of

20 bars/290 psi and second stage of 4.12 bars/ 60 psi. Double safety valve type 2 No's each.

vii) Humidifier Bottle: Poly Carbonate Bowl with metal Cap and T type inlet outlet nipples- 2nos. All the connectors should be of chrome plated on brass material.

viii) Flow Meter: Brass with chrome plated body, Poly carbonate tube, to regulate the flow from 0 to15liters per mint. It should be a back pressure compensated.

ix) Humidifiers should be mounted @1100mm height from the floor on RH side wall in front of the wooden cabinet.

x) Same (used for flooring) Vinyl sheet to be fixed on the oxygen compartment flooring and sidewalls.

xi) Three plus one (3+1) four ports of Brass 3/8 inches nipple in size be provided in complete one assembly (One set) on a common rectangular Brass Tube (Rail) with two Needle Valves at both the ends.

4) **Noise**

The ambulance should be designed and assembled of its aggregates and components to meet the noise level requirements in dB (A) scale, as per IS3028-1998. Necessarily, the noise levels in the patient compartment measured at six different locations [patient ear, rear side of interior of ambulance, front side of interior of patient compartment, on left and right side of patient cabin - with reference to centre line of the cabin] should not exceed 80 dB (A)

5) **Air-Conditioning**

The AC unit should be Roof Mounted Parallel Flow Condenser (Length-minimum 712 MM X Width 635 MM X Thickness 26 MM) – Subros / Carrier or Equivalent with Fiber cowl, with Double Cooling Fans. The gas used for Air conditioning should be environment friendly as per International regulatory requirements. The engine idling rpm should be so designed and tuned to fulfill the requirements of AC Unit.

- With engine driven compressor 10S17 of Subros /TM16/Sanden SD7:
- With 50mm ducts (ports) on the ceiling, in two rows to have eight delivery ports (four each row),of the patient cabin, with flaps to cover the ports,
- Digital microprocessor based temperature controller should be provided with fully automatic PCB based power supply.
- With all windows &doors closed, the system should be suitable for Heat Loadtodrawheatfrom10cubicmetervolume,(to bring down temp from

40° Celsius to 16°to 20° Celsius in 5 minutes).
To ensure proper ventilation in case of AC failure, two superior quality speed regulated roof / wall mounted fans be provided in the patient compartment to ensure adequate air flow.

6) **Siren**

A high-quality combination electronic siren with integrated Public Addressing System of

minimum 100W (PMPO) shall be provided. The siren's controls should have full range volume control and should permit the following sounds: Manual, Wail, and Yelp.

The siren sweep rate should be 10-18 cycles per minute (ambulance mode).

The microphone should be of a noise-cancelling type.

Siren/Speakers shall not protrude beyond the face of the bumper or bumper guards if provided in there.

The control panel for this system should be fixed at a suitable location in the driver compartment.

7) **Exterior Special Lighting and Illumination In addition to the signalling and lighting requirements as per the CMVR, the ambulance should have the following lighting fitments (12V):**

- LED based flashing lights with top blue lens having minimum four LED flashers visible on both sides of the ambulance (integrated or enclosed in a light bar) mounted on the roof top. The LED flashers should flash cyclically using appropriate flashers.

- Atleast two LED flashers & one spot lamp on both sides of the ambulance as well as two flashers & a rear loading lamp on the rear wall of the ambulance mounted at the highest position feasible. (The rear loading light shall automatically be activated when rear doors are opened.)

8) **Interior Patient Compartment Illumination**

There should be diffused flicker free automotive grade (12V, minimum 4000° Kelvin) lighting in the patient compartment. All interior lighting shall be flush mounted and should not get loose or fall during vehicle movement or vibration. Normal white illumination within the patient compartment without outside ambient light shall not be less than 160 Lux (lx) when measured along the centre line of the clear floor; and 376 lx on at least 90% of the surface area of the primary patient cot. At least one patient compartment light and rear loading lamp shall be automatically activated when the patient compartment rear doors are open.

9) **Electrical System**

There shall be two independent forward electrical circuits in the ambulance: the OEM-Base Vehicle Circuit and the non-OEM electrical circuit. At no point shall the forward OEM base vehicle circuit be tampered with to provide for any non-OEM electrical load requirements.
Each ambulance should have additional 'supplementary battery(s)' sufficient enough to power the non-OEM electrical load requirements of the homologated vehicle. These batteries should be located at a suitable location outside the patient compartment and should be automatically charged by the vehicle alternator while the vehicle is on and via 220V external AC supply if connected when stationary. The alternator of the base vehicle should be suitably augmented to ensure the same and it should also provide required output for continuous operation.

An appropriate battery charger / inverter should be provided to enable charging of the supplementary batteries via external 220V AC supply whenever connected and to fulfil AC load requirements of the ambulance if any. A recessed external charge port with spring loaded lid suitable for connecting the external 220V AC power supply should be provided on the exterior of the vehicle at a suitable place. A10 Meter length, Three (3) core, 10gauge/equivalent charging wire with high quality male three pin ends to be provided. This wire should be housed

at a suitable and easily accessible location in the ambulance.
There should be a cut-off switch provided at a suitable location outside the patient cabin to isolate the non-OEM forward electrical circuit. This circuit breaker should be labelled and housed at an easily accessible location while also ensuring protection against accidental switching off.
There should be short-circuiting as well as overload protection through fuses / Mini-Circuit Breakers (MCB) for different segmented electrical installations in the non-OEM electrical circuit. The fuse rating should be mentioned on each fuse and three numbers of each fuse should be housed in the fuse box cover or at an appropriate place.
Adequate AC/DC power receptacles / connections should be provided in the patient compartment to simultaneously power all the equipment's & fitments asked for in this document. The mountings of all electrical outlets shall be sturdy enough to handle wire/plug pressure and vibrations during transit. There should be at least one free automotive grade 12V DC receptacle provided in the patient &driver compartment each at an easily accessible location.
All switches, connectors, end-wiring should be rated to carry out minimum 125 % of their maximum ampere load. All wiring should confirm to ISI2645 specification. The wiring shall be permanently colour coded or marked the entire length of the wire for identification with easily readable numbers and letters, or both, and routed in conduit. When cables are supplied by a component manufacturer to interconnect system components, these cables need not be continuously colour coded / identified. They shall be coded/ identified at the termination or interconnection points. All added wiring shall be in accessible, enclosed, protected locations and kept at least 15cm (6in.) away from exhaust system components.
Except for those on large wires, such as battery cables, terminals shall be machine crimped to the wiring. A ratchet type hand crimper may be used where it is not possible to use a large machine crimper. Battery cable terminals, component terminals and connectors exposed to the ambient shall be coated with terminal corrosion preventive compound.
Electrical panels that are accessible to accidental contact shall have a protective cover, shield, and so forth, to prevent shorts that can result in injury, fire, or damage to the electrical system.
Electrical wiring and components shall not terminate in the oxygen storage compartment except for the oxygen controlled solenoid, compartment light, and switch plunger or trigger device. Wiring necessarily passing through an oxygen compartment shall be routed in a metallic conduit. **Radio Frequency Interference(RFI)** The ambulance electrical / electronic and mechanical equipment in running mode / on condition, should meet the Radio Frequency Interference standards [Electro Magnetic Interference (EMI) AIS – 004-1999]

10) **Emblem, Marking & Colour**

Complete body exterior should be uniform white in colour.
Front: The word "AMBULANCE", in mirror image (reverse reading) for mirror identification by drivers ahead with minimum height of 10cm, shall be written / pasted in retro-reflective material. A retro-reflective fluorescent yellow stripe shall be affixed to at least 25 percent of the width of the front of the vehicle.
Side: Each side of the patient compartment shall have the word "AMBULANCE", not less than 15 cm in height written/pasted in retro-reflective material. The name of the licensee as stated on their provider's license shall be written on each side of the ambulance in lettering not less than 8 cm in height. A retro-reflective stripe(s) in the form of fluorescent yellow/green Battenberg squares - 600mm x 300mm in alternating blocks starting with fluorescent yellow at the top - shall be affixed to at least 50 percent of the cab and body length on each side. This stripe shall be permitted to be interrupted by objects (i.e., receptacles, gaps between doors. etc.) provided

the full stripe is conspicuous when approaching the apparatus.
Rear: The word "AMBULANCE", with minimum height of 15cm, shall be written / pasted in retro-reflective material. At least 50 percent of the rear-facing vertical surfaces, visible from the rear of the vehicle, excluding any glass windows, shall be equipped with retro-reflective striping in a chevron pattern sloping downward and away from the centre line of the vehicle at an angle of 45 degrees. Each stripe in the chevron shall be a single colour alternating between red and fluorescent yellow. Each stripe shall be 6in. (150mm) in width.
All retro-reflective materials used to meet the above specifications shall meet or exceed the requirements of ASTM D 4956, Standard Specification for Retro- reflective Sheeting for Traffic Control, Section6.1.1forTypeISheeting.

11) **Layout Drawings, Operating Manuals, etc.,**

Comprehensive User Manual/s written in simple English with detailed parts description, operating instructions, service contact numbers, etc for the Base Vehicle, Patient/Driver Compartment Equipment, Fittings, etc shall be provided. These should be printed on high quality paper and housed in water-resistant pouches. Laminated sheets, clearly showing the Patient and Driver Cabin Layout with location of equipment, fittings, switches, consumables, etc suitably depicted should be fixed in the patient and driver cabin at suitable locations. Laminated sheet showing the non-OEM electrical wiring diagram complete with location of various fuses and circuit breakers should be displayed in the vehicle at a suitable location.
Sample drawing showing the layout of patient cabin for ALS Ambulance is attached along with. This drawing is indicative of an ideal ambulance layout and the bidders should adhere to this guidance in consonance with the above detailed specifications about the location and positioning of various medical equipment & patient care ergonomics while adapting the remaining fitments to their vehicle dimensions. Any dimension / fitment / equipment depicted in the sample drawing and not asked for in this tender document may be ignored.
The bidders MUST provide 2D / 3D rendered basic drawings for all types of quoted ambulances showing location of various components, sub-assemblies for structure, interior layouts, fitment of oxygen cylinders, layout of doctor's chair, attendant chairs, wash basin, cabinets, Inverter, medical equipment, etc along with the technical bid. The technical bid evaluation committee reserves the right to ask for appropriate changes in the patient compartment layout if not found suitable.

12) **Quality Assessment and Inspection One prototype of a BLS to be introduced into operations must be approved before being taken up for serial production.**

Each ambulance prototype shall undergo a three-step inspection and verification process to ensure compliance with the technical specifications contained herein:

1. Theoretical compliance based on documents furnished along with the technical bid and approval of the drawings of the proposed ambulance design and layout by the Purchaser's Authorized Technical Team before commencement of prototype production

2. CMVR Compliance certificate for the complete homologated ambulance with all equipment and fitments loaded from any of the testing agencies specified in CMVR,1989

3. Final prototype inspection for verifying compliance with all non-CMVR &other special requirements specified herein this tender document. This inspection shall be conducted by the Purchaser's Authorized Technical Team. The bidder shall furnish all necessary documents, test

reports and compliance certificates to the inspection committee. The decision of this Committee shall be final and binding in all respects.

13) **Oxygen Flow Meter with Humidifier (to be a part of fabrication)**

- Dial setting type without any floats, needles or moving parts to indicate the flow level.
- Pressure compensated for inlet pressure range of 3 to 5 bar, be able to regulate the flow from 0 to15litres per min and should show the actual oxygen flow rate.
- Installed vertically, so as not to interfere with the other outlets and should be easily readable from the Doctor's/Paramedic's eat.
- The inlet probe should be fully adaptable to the terminal outlet in the ambulance as well as to the outlet adapter of the oxygen cylinder specified below in the list of medical equipment
- The outlet of the flow-meter should be universal in design to accept the humidifier, the flows electors witch or a direct connector
- Should be calibrated for fixed flow settings and calibrated in multiple scale there by allowing precision settings in low flow ranges as well.
- Should allow the following minimum flow settings
- 0to1Lrange:4settings
- 1to5Lrange:4Settings
- 5 to 15 L range: 5settings
- Should have a humidifier made up of an impact resistant polycarbonate bowl with

  cap and inlet outlet nipples
- Should include flow selectors witch to bypass the flow of the oxygen through the

  Humidifier and allow nebulisation to the patient directly using the flow of the oxygen
- Should be supplied with a direct connector to provide oxygen therapy without

  Humidifier, insufflations kit and nasal prong

1) Steel and Ply Wood Cabinet for storing medical equipment / supplies / Wash basin / Dustbins:

- Dimensions: length to cover the width of fabricated ambulance end to end.
- Width = 1645mm and height=910mm.Placed alongside the partition wall behind the driver's compartment.
- Made of BIS quality water, rodent &insect proof and fire-retardant ply board s of

• Walls, Top and Bottom plywoodthickness-20mm

- Drawers plywoodthickness-13mm
- It should be cladded with 0.8 mm thick stainless sheet (SS-304) from all the
- areas exposed to patient compartment sides.
- Also, all the other areas (drawer walls, sides, rear and bottom) exposed to air should be laminated with minimum1mm heavy duty mica of silver gray colour.
- All the Sizes of the drawers should be as per Drawings supplied.
- Heightofthecabinet-510mm(from above the oxygen compartment)
- Width of the cabinet-1645mm(From left wall to Right wall of the body)
- First lane drawers width-515mm with one door (for dust bins and fresh and drain water tanks)
- Second lane drawer width-290mm Three rows on vertical with equal size
- Third lane Drawer width-550 Single door with EMT seat back rest. One partition to be made @height of 300mm from bottom of the wooden cabinet (With a provision of auto lock mechanism for avoid drawers open while in running)
- Fourth Lane drawer's width- 290 two rows. Top-170mm height- Second-rest of the height
- All the hardware like rails, channels, sliders, locks, catchers, hinges, handles should be best quality of branded material (heavy duty renowned brands).
- House the Stainless Steel (SS-304) wash basin minimum 410MM dia, maximum of 420dia Depth minimum165MM maximum 170mm with water taps (Brass with chrome plated) supplying water through Motorized Pump (12 V DC power operated), with foot operated control mounted on the bottom of the medicine rack vertically, to pump the water from the fresh water tank.
- The Wash Basin Pump should have water tap positioned so that by washing hands, water should not fall outside the basin.
- Provision for Liquid hand wash carrier to be fitted on to the left side of the wall near wash basin with sufficient reinforcement (Refer Drawing). Liquid should fall directly in to basin when pressed.
- Fresh water tank (10 liters) and drain water tank (15 liters) both made of Stainless Steel (0.8mm SS304 grade) to be fitted below the wash basin.
- Wash basin and Drain water tank hose connection joints to be fixed firmly with clamp and sealant to prevent water over flow into the patient compartment.
- The drawers should be provided with double Magnet catchers for each drawer at back side to secure them against unintended opening during motion of the ambulance.

- 9 slots of ABS material, removable partition tray with THREE partitions to be provided in the upper drawer beside the dust bins and rest all the drawers to have 3 horizontal partitions.
- A plywood with lamination tray with 9 slots (530mm length 300mm width 130mm height) to be fixed on the right side of the wooden cabinet.
- Leather stitched Velcro mounting to be provided to secure needle destroyer and manual BP apparatus over the right side of the wooden cabinet.
- Two Concealed Portable Steel Dust Bins to be fixed with at least two screws there by making immovable with spring loaded lids for waste disposal are to be Provided under the wash basin. 420mm Height (Including spring loaded lid) X 200 mm Dia.
- Pilot cabin partition frame in place of novapon to be made in 25x25x0.8 mm thick mild steel tube of prime quality, with a sandwich FRP panel to be fastened to the MS frame from both sides.
- Pilot cabin partition to be provided with window (which is supplied by bare vehicle) (size 850mm width 420 mm height) with two sliding glass with proper beadings in center of the Partition.

3) EMT's Foldable Seat:

A seat to be mounted to the oxygen cylinder compartment, splint rack can be used for back rest for seat

i) Dimensions: Length =400mm, width =500mm and height=380mm, Back Rest height=400mm

ii) S.S. Powder coated steel pipes of 20 mm diameter&1.5 mm wall thickness to be used.

iii) It should have one waist seatbelt.

iv) A minimum 70mm thick, 50 or higher density Foam cushion to be provided for comfort.

v) And the same should be upholstered with non absorbent Rexin of silver gray colour.

vi) These at should have Velcro Belts of old it up.

vii) Bracket resting on floor to have spring loaded mechanism to close the bracket automatically when closed.

viii) Ribbed bushes to be provided to the brackets resting on floor

ix) Viii) Back rest to be provided with good locking system to hold the seat in both the conditions (When the chair is open or closed).

6) Wall paneling work Pilot and Patient Compartments:

a) Wall paneling:

x) To be reinforced with steel rib cage and all Interiors, internal sides, cover to close the wheel hump and roof should be paneled in Fiber Reinforced Plastic (FRP) minimum 3mm thick, Chopped Strand Mat / Isophelic Polyesters / Gel Coat with superior quality painting to be done with PU paint.

xi) Dual insulations - PUF / PU 12 mm insulation and thermocol 40mm thick (Both in two layers) for reduction of heat and noise within the patient compartment, insulating material should be non-toxic, non-settling type, vermin proof, mild dew proof and non-hygroscopic body and panelling provided.

xii) Panels shall be installed in a manner that prevents sagging, deflection, warping or vibration and they should be free from any sharp projections wherever there are any open/hollow areas behind walls and door, suitable reinforcement must be installed to prevent breakage of this paneling.

xiii) All the Panels, Parts Mounted and Provision for Medical Equipment to be Mounted shall have 4mm thick Mild Steel (MS Fe 410) sheet reinforced behind the specified area as per the Drawings provided.

i) The MS sheet should be MIG welded to the body of the Vehicle structure as per Automobile standards and to be coated with PU Primer to avoid any rusting.
ARCH WELDING WILL NOT BE ACCEPTED

b) A seamless appearance and finish is desirable to keep the ambulance bacteria free in-service.

General:

i) FRP made two pouches (Size Width 700mm, Height 200mm, Depth 100mm) to be provided on to the partition wall behind Pilot seat for placing ambulance records with proper reinforcement on partition structure.

ii) Provision for placement of power switches / sockets/ fans/ air conditioner, telemedicine and for upgrading other electrical items shall be made available in panelled walls.

iii) Provision for I.V hooks &holders -2 numbers should be made on the front RHs wall and one at rear RHS wall with proper reinforcement and Velcro.

iv) Adequate provision for safeguarding oxygen regulator, flow meter and humidifier on the right-side panel to be provided.

v) Six plug switch board with on/off switches of standard quality (230 V AC) (With Combination of 5 &15 AMPS) to be made available on the RHS wall around Medical Equipment's console Area.

vi) Identification sticker for all electrical switches, medical equipment and racks etc. to be pasted.

7) Head racks and grab rails in the ceiling and near Rear Door: a) Head Rack:

i) Dimension approx. Length =1800mm, Width = 350mm, Height = 270mm to be integrated

with roof above the squad bench. Made in FRP (min 3mm thick) and required 32X4 MS reinforcement to be provided. Inner surface is to be pasted with soft Heat l on black colour sheet of 4mm thickness.

ii) One Partition in centre of the head racks to be provided inside the head racks.

iii) Four ISI quality toughened glasses thickness 4mm to be provided with Aluminium black colour sliding channel with velvet beadings (1.5MM thickness and 40 mm width).

iv) Glasses to be fixed in opposite direction for open in and closing with aluminium hand lecum clip type (Automatic locking when closed).

v) The Head rack should have suitable oval shaped closures to cover the opening, which are easy / comfortable to operate and do not have any sharp edge at the openings.

b) Spine Board, and Wheel Chair Hold:

i) A provision should be made available for securing the Spine board above the RHS wheel hump cover with double strip Leather stitched Velcro band at three places of the board with proper reinforcement.

ii) A 200mm height stainless steel stopper to be provided for holding the spine board with proper reinforcement.

iii) Adequate Supports to be provided on RHS wall to avoid spine board touching the wall when secured.

iv) Wheel chair to be placed before RH wheel hump on RH side wall with two mounting brackets on floor for holding the wheels, and toggle clamp to be provided on top of the wheel chair for locking with proper reinforcement.

v) Provision for fitment of Collapsible stretcher mounting &lock bracket on floor board to be provided

8) Fire extinguisher hold:

i) Provision to be made Leather stitched Velcro with reinforcement for placing a fire extinguisher should be provided as per drawing. A Stainless-Steel holding bracket to be provided on the floor with proper size.

9) Window Covering:

i) All the rear side Windows should have non-transparent white film pasted from inside, morethan half of the height of the window to avoid any visibility into the ambulance.

10) Water Dispenser:

i) Water Dispenser 3.5 Lt. (Stainless Steel) is to be provided with straps near wash basin area.

Part B: Scope of Air Conditioning Work:

Part C: Scope of Electrical Work:

12) Inverter:

i) True sine wave inverter,

ii) The Inverter should be of well-known brands like Luminous, Microtech.

iii) Inverter Capacity - 600 watts /800 VA,

iv) InputRange-AC130v,270V/DC9.5V,13.8V,

v) Frequency - 50Hz,

vi) Power Factor -0.8,

vii) Output Voltage – 220(+/-)10% (regulated output from full charge battery voltage to low charged battery voltage)

viii) Waveform - Single Pulse PWM

ix) Efficiency -85%

x) Charger - Heavy duty CC/CV type with current limit at 12A with wide input range(150V-270A)

xi) Integrated AC/DC supply inside the vehicles Synchronous with alternator.

xii) 10 Meter length three core 10-gauge charging wire with male three pin ends to be provided

xiii) Provision to be made to charge the batteries placed inside the driver's cabin with external AC power.

The electrical Wiring should be done in consultation with the Inverter Manufacturer's recommendation, and should provide certification to prove this.

13) Light bar:

i) LED based Rhombic shaped, Double layered structure, Combination of continually lit, turning lamps,

ii) Long lifespan, high luminance, Voltage:DC12V, Power:25W

iii) With integrated double diaphragm type Siren, Public Addressing System of 100W (PMPO) output.

iv) Light bar to be mounted on front roof of the vehicle with MS frame with FRP cover.

14) Flashers, Spot Lights, Internal Lights:

i) (6Nos) high intensity Flashers (LED TYPE), red-orange pair on eitherside, and both red- orange on there are of the vehicle.

ii) (3Nos) Spot / flood lights on three sides, except on the front, in the middle of each pair of Flashers.

iii) Spot high power LED lights 4 (non-external lighting) in ceiling inside the Patient compartment to be provided.

iv) (4Nos) LED lights with fixture 12V DC powered on the both sides for internal lighting each on a separate circuit. Voltage:12VDC, Amps:2.1, Lumens:2175

Dimension (mm): 920.8x66.1x63.5.

v) 230V AC / 15/5 amp - 3 pin (5 No's) and 12V DC-Round sockets (2 No's) power source with modular switches.

vi) External charge port with spring loaded lid to be located at the rear left over the footstep.

vii) One Mobile AC 15/5 amp - 3 pin Charging Switch Socket assembly is to be provided in Pilot compartment.

viii) 230V/15AMP 3 pin plug point with switch to be provided for suction apparatus between medicine rack and squad bench on LH wall.

15) Electrical Wiring:

i) All main components like:

(a) AC Blower

(b) Condenser Fans,

(c) Each of Internal Lightings (Led Lights),

(d) Internal Lightings (Spot Lights),

(e) External Lights(Flashers),

(f) External Lights (Spot/Flood Lights).

(g) Light Bars,

(h) Each of Medical Equipment Powering Sockets etc.…

Should have separate circuits, (Power drawn directly from source (with proper cut off switch after Battery/Inverter)and a Fuse in it).

A laminated copy of standard wiring diagram for Air conditioning, AC and DC wiring separately should be provided with each ambulance for reference.

All precautionary measures should be taken in to consideration within the Scope of Auto Electrical work to avoid any accidental fire incidence during installation of any Electrical gadget, or any provision for that.

16) Fuse and Other Safety Measures:

i. Battery main cut off switch to be provided without naked wires or mounting.

ii. A separate Fuse to each of the (as mentioned above) circuits to be given.
iii. There should be an Indicating sticker to be pasted to each fuse on the fuse Box to identify the Fuse separately.
iv. There should not be any joints given within the Circuit Wiring,
v. At any unavoidable wiring junction(s) the wires should be joined through Bakelite Connectors.
vi. There should not be any loose wiring and loose joints.
vii. Other than vehicle wiring harnesses, all wires/harness used should be made with fire proof grade.
viii. All the electrical wires and accessories should carry ISI Mark, with CML Number and be approved by technical committee and should be of (ARAI/ISI) auto mobile standards.
ix. All other unspecified Parts necessary for the Wiring should be of Automobile grade and/or ISI Certified with CML Number.
x. Same colour code wires to be used for all ambulances for respective circuits.
xi. All wiring harness should be covered with crocodile sleeves and should be routed properly.
xii. All relays should be of electronic type only.
xiii. All the holes drilled for wire routing, holes edges to be covered with rubber sealing (Grommet) to prevent wire damage.

17) Clock:

i) A standard quality LED/Digital clock to be provided in the patient compartment. It should have a minimum Letter (font) Size of 50 to have better visibility.

18) DC connections Socket:

i) 2DC Sockets12V near Equipment area to be provided.

19) Roof / Wall mounted fans:

i. Half Safety metal guard. Screw mounting with brushless Oscillating, 200 mm fanblade,operatedbyDC12Vin2nos.inthePatientcompartment,

ii. One fan (same as above) in Pilot Compartment.

iii. Roof light to be fitted in pilot cabin.

20) Exhaust Fan:

One 200mm brushless 230Volts Exhaust fan to be mounted to partition between Pilot and ambulance compartment, to pump ambient air into the patient compartment.

21) Front and rear rubber mud flap stop be provided.

22) Both side (TWO windows on each side) windows to be closed with 1 mm Thickness sheetwithCO2weldingprocessandpaintingtobedone.

23) (Old windows and partitions to be handed over to the purchaser).

24) Approval from the Transport Commissioner of Karnataka is mandatory. Complete Graphics to be done as per the purchaser specifications and designs.

25) White retro reflecting tape to be fixed for front bumper-complete length

26) Red retro reflecting tape on rear door bottom-complete length

27) Yellow retro reflecting taping to be fixed on LH and RH side of the complete length of the body as per RTA rules and regulations. (2 inch in size retro reflecting tape should be used)

Warranty:
a) Three-year Warranty for all parts of Fabrication.

Equipment's Specification

1. Artificial Breathing Unit Adult

Technical Specifications	
Version no. :	1
Date:	06-08-2013
Done by : (name / institution)	HCT/ NHSRC
NAME AND CODING	
GMDN name	Resuscitators
GMDN code	CT 1899
GMDN definition	A hand-operated device designed to provide or assist ventilation in patients who are apnoeic or exhibit inadequate respiration. It typically employs entrained ambient air and includes a large flexible chamber that is hand- ventilated, a gas reservoir, tubing, and a connector for attachment to a mask or endotracheal (ET) tube; oxygen (O2) from an O2 SOURce may also be connected when necessary.
	It is used by emergency medical services (EMS) in ambulances, intensive care units (ICU), during internal patient transfer, accident and emergency (A&E), mass casualty incidents (MCI), and is generally placed strategically throughout a hospital. This is a reusable device.
GENERAL	
1. USE	

1.1	**Clinical purpose**	to provide or assist ventilation in a patient who is apnoeic or exhibits inadequate respiration through manual pulmonar-driven pressure cycle functions.
1.2	**Used by clinical department/ward**	It is used in ambulances, intensive care units (ICU), during internal patient transfer, accident and emergency (A&E), and mass casualty incidents (MCI).
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics**	1. Easy Grip manual resuscitator with transparent face-mask;
		2. Adult models (1500 to 2000ml bag capacity);
		3. Standard 15-22 mm Swivel connector allows connections to all common masks Endotracheal Tubes;
		4. Provision to give supplemented oxygen-by-oxygen reservoir providing 100% oxygen;
		5. Non-re breathing valve enabling the patient to inspire oxygen from the reservoir bag.
2.2	**Settings**	Manual
2.3	**User's interface**	Manual
2.4	**Software and/or standard of communication(where ever required)**	NA
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	Handheld
3.2	**Weight (lbs, kg)**	light enough to be operated by hand/palm for long duration.
3.3	**Configuration**	NA
3.4	**Noise (in dbA), heat dissipation**	NA
3.5	**Mobility, portability**	Handheld
3.6	**Others**	
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO_2)		
4.1	**Power Requirements**	NA
4.2	**battery operated**	NA
4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	NA
4.6	**Other energy supplies**	NA
5. ACCESSORIES, SPARE PARTS,		

CONSUMAbLES		
5.1	**Accessories & Spares**	Silicon bellow, Non Rebreathing Valve,
5.2	**Consumables / reagents (open, closed system)**	Adult Mask, 1 meter oxygen tube, Guedel Airway, Oxygen Reservoir bag.
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.
7. STANDARDS AND SAFETY		
7.1	**Certifications**	ISO 13485; CE Certified product.
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	NA
8.2	**Requirements for sign-off**	NA
8.3	**Training of staff (medical, paramedical, technicians)**	Training of users in operation and basic maintenance shall be provided.
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	1 year
9.2	**Maintenance tasks**	NA
9.3	**Service contract clauses, including prices**	NA
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	NA
10.2	**Other accompanying documents**	NA
10.3	**Recommendations for maintenance**	NA
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	NA
11.2	**Recommendations or warnings**	NA

2. BP Instrument Android

Technical Compliance		
Version no. :		1
Date:		08-05-2013
Done by : (name / institution)		HCT/ NHSRC
NAME AND CODING		
GMDN name		Sphygmomanometers
GMDN code(s)		CT1677
GMDN definition		A device designed to measure blood pressure consisting of an inflatable cuff that fits around a limb (arm or thigh), an inflation bulb for controlling the air pressure within the cuff, an aneroid manometer, and tubing. The aneroid manometer consists of a metal bellows, which expands as the pressure in the cuff increases, and a mechanical amplifier that transmits this expansion through a lever to an indicator needle, which rotates around a circular, calibrated scale. The manometer may be mounted to a wall, placed on a table, or hand held (portable); blood pressure measurement is taken in conjunction with a stethoscope.
GENERAL		
1. USE		
1.1	**Clinical purpose**	To measure non invasive blood pressure.
1.2	**Used by clinical department/ward**	All
1.4	**Overview of functional requirements**	
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics (specific to this type of device)**	Scale 0-300 mm hg. Air release at closed lap with maximum 4mmHg/Minute. Manual setting of deflation possible upto 2/3mm Hg/sec. From 260mmHg. To 15mm Hg in a maxium deflation time of 10 seconds. Gauge's background in white colour. Graduated scale for ever/ 2mmhg, every 10 units and every 20 units. Nylon straps cuff with pouch, latex bulb with completely chromium plated valve with regulation of vent-hole air by screw valve.
2.2	**Settings**	The cuff is inflated just to fit in the limb for which an inflation bulb is used to control the air pressure within the cuff.

2.3	**User's interface**	Manual
2.4	**Software and/or standard of communication(where ever required)**	NA
	3. PHYSICAL CHARACTERISTICS	
3.1	**Dimensions (metric)**	The rubber tubes used should have an internal diameter of 3 ± 0.5mm and the external diameter should not be less than 8mm; The dial mano meter with minimum diameter of 160 mm.
3.2	**Weight (lbs, kg)**	NA
3.3	**Configuration**	NA
3.4	**Noise (in dbA), heat dissipation**	NA
3.5	**Mobility, portability**	Yes
	4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)	
4.1	**Power Requirements**	NA
4.2	**battery operated**	NA
4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	NA
4.6	**Other energy supplies**	NA
	5. ACCESSORIES, SPARE PARTS, CONSUMAbLES	
5.1	**Accessories (mandatory, standard, optional)**	Adult arm cuffs of size medium & large and paediatric size, inflation bulb, tubing.
5.2	**Spare parts (main ones)**	Dial mano meter.
5.3	**Consumables / reagents (open, closed system)**	NA
	6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS	
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 40

		deg C and relative humidity of 15 to 90%.
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	NA
7. STANDARDS AND SAFETY		
7.1	**Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international**	ISO 13485;
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	Supplier to perform safety and operation checks before handover.
8.2	**Requirements for sign-off**	Certificate of inspection from the factory.
8.3	**Training of staff (medical, paramedical, technicians)**	Training of users in operation and basic maintenance shall be provided.
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	1 years
9.2	**Maintenance tasks**	Maintainance manual detailing complete maintaining schedule.
9.3	**Service contract clauses, including prices**	
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	User, technical and maintenance manuals to be supplied in english language along with machine diagrams. List to be provided for procedures required for routine maintenance.
10.2	**Other accompanying documents**	
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	NA
11.2	**Recommendations or warnings**	Any recommendations for best use and supplimentary warning for safety should be declared.

3. Cervical Collar

Technical Specifications		
Version no. :		1
Date:		08-05-2013
Done by : (name / institution)		HCT/ NHSRC
NAME AND CODING		
GMDN name		Disability-assistive products
GMDN code(s)		CT1000
GMDN definition		A padded device that is worn around the neck and used to support or immobilize the cervical spine to treat deformities, fractures, sprains, or strains (often to treat whiplash resulting from an automobile accident). This device will provide support to the head while limiting movement of the cervical vertebrae. It is available in a variety of sizes. This is a reusable device.
GENERAL		
1. USE		
1.1	**Clinical purpose**	Used to support or immobilize the cervical spine to treat deformities, fractures, sprains, or strains
1.2	**Used by clinical department/ward**	Trauma care; musculo-skeletal support
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics (specific to this type of device)**	1. Should be adjustable to 4 different sizes. Should be be rigid and not padded.
		2. Should be pre-molded chin support, locking dips and rear ventilation panel, enlarged trachea opening.
		3. Should be high-density polyethylene and foam padding with one piece design enables efficient storage where space is limited.
		4. Should be X-ray

		lucent and easy to clean and disinfect.
2.3	**Settings**	Size adjustment.
2.4	**User's interface**	Manual
2.5	**Software and/or standard of communication(where ever required)**	NA
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	NA
3.2	**Weight (lbs, kg)**	As light as possible.
3.3	**Configuration**	NA
3.4	**Noise (in dbA), heat dissipation**	NA
3.5	**Mobility, portability**	NA
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)		
4.1	**Power Requirements**	NA
4.2	**battery operated**	NA
4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	NA
4.6	**Other energy supplies**	NA
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories (mandatory, standard, optional)**	NA
5.2	**Spare parts (main ones)**	NA
5.3	**Consumables / reagents (open, closed system)**	NA
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	NA
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	NA
7. STANDARDS AND SAFETY		

7.1	**Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international**	ISO 9001
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	Supplier to perform safety and operation checks before handover.
8.2	**Requirements for sign-off**	
8.3	**Training of staff (medical, paramedical, technicians)**	
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	1 years
9.2	**Maintenance tasks**	NA
9.3	**Service contract clauses, including prices**	NA
9.4	**Others**	
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	NA
10.2	**Other accompanying documents**	NA
10.3	**Recommendations for maintenance**	NA
10.4	**Others**	
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	NA
11.2	**Recommendations or warnings**	NA

4. Extrication Tool Kit

Sl.No	Technical Specifications
1	12’’wrench Adjustable Open End.

2	12” Screw Driver Standard Square Bar:8’’screw Driver Philps Head #2.
3	Hacksaw With 12’’carbide Wireblade: Visegrippliers 10’’:5lb Hammer With 15’’handle: Fibreaxe Butt 24’’handle: Wrecking Bar With 24’’ Handle 51” Crowbar Pinch Point: Boltcutter With 1’’ To ¼’’Jaw Opening Showel Pointed Blade Tin Snips, Double Action 8’’ Minimum Gauntlets.
4	
5	Ropes 5400lb Tensile Strength In 50’: Mastic Knife.
6	Springload Center Punch.
7	Pruning Saw.
8	Luminous Search Light (Rechargeable).
9	Shall Be Able To Withstand The Rugged Condition Of The Emergency Usages.
10	Be Durable, Even After Repeated Use.
11	Equipment Should Be Ce/Fda/Isi Certified.

5. Flow meter with Humidifier Bottle

Technical Specifications		
Version no. :		1
Date:		06-08-2013
Done by : (name / institution)		HCT/ NHSRC
NAME AND CODING		
GMDN name		Flowmeter and associated device
GMDN code(s)		CT 623
GMDN definition		NA
GENERAL		
1.USE		
1.1	Clinical purpose	Flow meter unit is used for regulation and accurate measuring of flow of gasses
1.2	Used by clinical department/ward	All
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specific to this type of device)	Flowmeter: chromium plated brass body, metering tube and cover made of polycarbonate body, flow adjustment by needle valve equiped with inlet filter -100 um, flow rate 0-15 liters per minute, flush flow 60 litres per minute, flow read by the centre of the ball, inlet pressure 60psi;Humidifier bottle: lid made of ABS plastic, Jar made of unbreakable Poly

		carbonate, valve pressure brass cromium plated, it should be steam autoclaved/ gas sterilised
2.3	Settings	To manage flow of oxygen through the knob from 0 to 15 LPM
2.4	User's interface	Manual
2.5	Software and/or standard of communication(where ever required)	NA
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	For 200ml
3.2	Weight (lbs, kg)	As per standard
3.3	Configuration	NA
3.4	Noise (in dbA), heat dissipation	NA
3.5	Mobility, portability	yes
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)		
4.1	Power Requirements	NA
4.2	battery operated	NA
4.3	Tolerance (to variations, shutdowns)	NA
4.4	Protection	NA
4.5	Power consumption	NA
4.6	Other energy supplies	NA
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	Accessories & Spares	Stainless steel or brass chromium needle valve and outlet flow control valve

5.3	Consumables / reagents (open, closed system)	Crack resistant transparent tube of 1.5 MT. length
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	Atmosphere / Ambiance (air conditioning, humidity, dust ...)	NA
6.2	User's care, Cleaning, Disinfection & Sterility issues	Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.
7. STANDARDS AND SAFETY		
7.1	Certifications	Complies with NFPA standard ; CE
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, tolerance	Availability of oxygen outlet points
8.2	Requirements for sign-off	NA
8.3	Training of staff (medical, paramedical, technicians)	NA
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	One year
9.2	Maintenance tasks	Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.
9.3	Service contract clauses, including prices	NA
10. DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	NA
10.2	Other accompanying documents	NA
10.3	Recommendations for maintenance	NA
11. NOTES		

11.1	Service Support Contact details (Hierchy Wise; including a toll free/ landline number)	NA
11.2	Recommendations or warnings	NA

6. Double Head immobilizer

Technical Specifications		
Version no. :		1
Date:		06-08-2013
Done by : (name / institution)		HCT/ NHSRC
NAME AND CODING		
GMDN name		Immobilizers
GMDN code(s)		CT1818
GMDN Defination		A rigid or non-rigid device, usually made of fabric and/or plastic materials, used to temporarily render the head/neck of a patient immovable to ensure immobilization when a head and/or spinal injury is suspected. It is usedin conjunction with serious accidents and for transport of the patient on a stretcher and possibly in conjunction with a spinal board to which this device and the patient are strapped. It is typically made of x-ray translucent/non-ferromagnetically active materials that allow x-ray and magnetic resonance imaging (MRI) and comes in various sizes. This is a reusable device after appropriate cleaning.
GENERAL		
1. USE		
1.1	**Clinical purpose**	Used to temporarily render the head/neck of a patient immovable to ensure immobilization when a head and/or spinal injury is suspected.

1.2	**Used by clinical department/ward**	Emergency
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics (specific to this type of device)**	1. Head Immobilizer should be mountable and separable from the scoop stretcher. 2. Should be of standard side. 3. Should be with padded belts for the fixing. 4. It should be covered by a liquid proof and bacterial proof material.
2.2	**Settings**	NA
2.3	**User's interface**	Manual
2.4	**Software and/or standard of communication(wher e ever required)**	NA
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	Standard
3.2	**Weight (lbs, kg)**	Standard
3.3	**Configuration**	NA
3.4	**Noise (in dbA), heat dissipation**	NA
3.5	**Mobility, portability**	yes
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2		
4.1	**Power Requirements**	NA
4.2	**battery operated**	NA
4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	NA
4.6	**Other energy supplies**	NA
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories (mandatory, standard, optional)**	NA
5.2	**Spare parts (main ones)**	NA
5.3	**Consumables / reagents (open, closed system)**	NA
6. ENVIRONMENTAL AND DEPARTMENTAL		

CONSIDERATONS				
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	NA		
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	NA		
7. STANDARDS AND SAFETY				
7.1	**Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international**	ISO 9001; FDA/CE		
8. TRAINING AND INSTALLATION				
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	Supplier to perform safety and operation checks before handover.		
8.2	**Requirements for sign- off**			
8.3	**Training of staff (medical, paramedical, technicians)**			
9. WARRANTY AND MAINTENANCE				
9.1	**Warranty**	1 year		
9.2	**Maintenance tasks**	NA		
9.3	**Service contract clauses, including prices**	NA		
9.4	**Others**			
10. DOCUMENTATION				
10.1	**Operating manuals, service manuals, other manuals**	NA		
10.2	**Other accompanying documents**	NA		
10.3	**Recommendations for maintenance**	NA		
10.4	**Others**			
11. NOTES				
11.1	**Service Support Contact details (Hierchy Wise;**	NA		

	including a toll free/ landline number)	
11.2	**Recommendations or warnings**	NA

07. Laryngoscope

Technical Specifications		
Version no. :		Laryngoscope 2.0
Date:		05-Aug-13
Done by : (name / institution)		HCT/ NHSRC
NAME AND CODING		
GMDN name		Laryngoscopes
GMDN code		CT1723
GMDN definition		A non-sterile, portable, battery-powered device intended to provide the light source for a laryngoscope (i.e., rigid intubation type) when fitted into the laryngoscope handle. It typically consists of a removable cylindrical cell that produces light which is emitted from the laryngoscope handle via a fibreoptic laryngoscope blade for airway illumination. The device may be kinetically or electrically recharged. This is a reusable device.
GENERAL		
1. USE		
1.1	**Clinical purpose**	For viewing vocal folds and glottis. Surgical and mechanical ventilation/ intubation.
1.2	**Used by clinical department/ward**	O.T / ICU / NICU/ Casuiality.
1.3	**Overview of functional requirements**	A light source on or via the blade illuminates the larynx to allow viewing and tube passage. The unit is handheld with internal batteries and has interchangeable, rigid blades of different sizes.
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		

2.1	**Technical characteristics (specific to this type of device)**	Fiber optic Laryngoscope-preferably should be reusable using the latest LED technology. The main body of the handle should incorporate an excellent grip & should feel even wearing a glove. There should be a freely moving light intensifier of light from the light source through to the tip of the fiber optic blade to prevent any possibility of cross contamination. The unit should allow the blade to be inserted easily & should provide a positive locking mechanism when moved in to the closed position.
2.2	**Settings**	NA
2.3	**User's interface**	Manual
2.4	**Software and/or standard of communication(where ever required)**	NA
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	NA
3.2	**Weight (lbs, kg)**	Light weight (up to 500 gms)
3.3	**Configuration**	Handheld unit, single piece when in use; On/off switch to be robust and easy to use; External material to be non-ferrous; Blades to be surgical grade stainless steel; Supplied in protective, reclosable container
3.4	**Noise (in dbA), heat dissipation**	NA
3.5	**Mobility, portability**	yes
3.6	**Others**	storage box should be provided
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)		
4.1	**Power Requirements**	Independent of external source
4.2	**battery operated**	Internal batteries, rechargeable preferred
		Battery charger (if rechargeables), Battery compartment (if reusables) to be sealed against liquid ingress, yet easily opened.

4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	3V lithium battery; 2nos.
4.6	**Other energy supplies**	
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories (mandatory, standard, optional)**	Batteries, blades of various neonatal sizes
5.2	**Spare parts (main ones)**	Handle
5.3	**Consumables / reagents (open, closed system)**	3 bulbs/3LED should be given as spare
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.
		Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.
		Liquid splash resistant.
		Blades should be autoclavable.
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	Should be autoclavable
7. STANDARDS AND SAFETY		
7.1	**Certificates**	FDA/CE; ISO 7376:2009 gives general requirements for laryngoscopes used for intubation, and specifies critical dimensions for the handle and lamp of hook- on type laryngoscopes. It also addresses the interchangeability of blades and handles.
7.3	**Local and/or international**	Manufacturer / supplier should have ISO certificate for quality standard.

8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	NA
8.2	**Requirements for sign- off**	NA
8.3	**Training of staff (medical, paramedical, technicians)**	NA
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	3 years ; LED upto 6 months
9.2	**Maintenance tasks**	Autoclave
9.3	**Service contract clauses, including prices**	NA
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	Advanced maintenance tasks required shall be documented. User, technical and maintenance manuals to be supplied in english language along with machine diagrams. List to be provided for procedures required for routine maintenance.
10.2	**Other accompanying documents**	NA
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	NA
11.2	**Recommendations or warnings**	Any recommendations for best use and supplimentary warning for safety should be declared

8.Magills Forceps

Technical Compliance	
Version no. :	1
Date:	06-08-2013
Done by : (name / institution)	HCT/ NHSRC
NAME AND CODING	
GMDN name	Forceps

GMDN code(s)		CT2065
GMDN definition		A hand-held instrument used for grasping a tube [e.g., a catheter or an endotracheal (ET) tube] for its insertion and/or extraction into/from the airways, or for grasping obstructive objects for their removal from the airways. Commonly known as a Magill's forceps, it typically has a scissors-like design with ring handles and is made of high-grade stainless steel. It is available in various sizes and the working end will typically have grasping blades that have small ringed loops or
		S-shaped distal working ends. The blades are serrated to provide extra
		grip. It is typically used by emergency medical services (EMS). This is a reusable device.
GENERAL		
1. USE		
1.1	**Clinical purpose**	Angled forceps used to guide a tracheal tube into the larynx or a nasogastric tube into the esophagus under direct vision. It is also used to place pharyngeal packs and remove foreign bodies.
1.2	**Used by clinical department/ward**	All
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics (specific to this type of device)**	Standard instrument in stainless steel; corrosion free.
2.2	**Settings**	NA
2.3	**User's interface**	NA
2.4	**Software and/or standard of communication(where ever required)**	NA
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	
3.2	**Weight (lbs, kg)**	NA
3.3	**Configuration**	NA
3.4	**Noise (in dbA), heat dissipation**	NA
3.5	**Mobility, portability**	yes
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)		
4.1	**Power Requirements**	NA
4.2	**Battery operated**	NA
4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	NA
4.6	**Other energy supplies**	NA
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories (mandatory, standard, optional)**	NA

5.2	**Spare parts (main ones)**	NA
5.3	**Consumables / reagents (open, closed system)**	NA
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	NA
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.
7. STANDARDS AND SAFETY		
7.1	**Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international**	ISO 9001
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	Supplier to perform safety and operation checks before handover.
8.2	**Requirements for sign- off**	
8.3	**Training of staff (medical, paramedical, technicians)**	
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	1 year
9.2	**Maintenance tasks**	NA
9.3	**Service contract clauses, including prices**	NA
9.4	**Others**	
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	NA
10.2	**Other accompanying documents**	NA
10.3	**Recommendations for maintenance**	NA
10.4	**Others**	
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	NA
11.2	**Recommendations or warnings**	NA

09. Monitor

Technical Specifications		
Version no. :		1
Date:		05-08-2013
Done by : (name / institution)		HCT/ NHSRC
NAME AND CODING		
GMDN name		Patient monitors/monitoring systems
GMDN code(s)		CT1444
GMDN category		Anaesthetic and respiratory devices , Electro mechanical medical devices
GMDN definition		A device assembly designed to continuously measure and display multiple vital physiological parameters of newborn and premature infants, especially those under critical care. It is typically capable of monitoring parameters such as electrocardiogram (ECG), respiration rate, heart rate, blood pressure, and body temperature; it may also assess haemoglobin oxygen saturation (SpO2) through transcutaneous sensors that measure both transcutaneous oxygen (tcpO2) and transcutaneous carbon dioxide (tcpCO2) saturation. The system typically includes sensors with appropriate size and design for infant use.
GENERAL		
1. USE		
1.1	**Clinical purpose**	Designed to continuously measure and display multiple vital physiological parameters of newborn and premature infants, especially those under critical care.
1.2	**Used by clinical department/ward**	All
1.3	**Overview of functional requirements**	Operates from mains voltage or from internal rechargeable battery.Operator can set audio visual alarm levels for low or high levels of each parameter independently.Allows display of single, 3 lead ECG or simultaneous display of at least 5 waves ECG selected from up to 12 points.Display to be digital of all active
		parameters and trace display for at least three selectable parameters.Continuous display on screen of neonatal or infant ECG, respiration and heart rates, invasive / non-invasive blood pressure, body temperature and
		SpO2.
2. TECHNICAL CHARACTERISTICS		

2.1	**Technical characteristics (specific to this type of device)**	1) Should have facility to display ECG, RR, HR, PR, SPO2, NIBP & temperature as standard parameters. 2) Should have minimum 4 hours battery backup and charging 220V AC. Should have PWTT Mode (Pulse Wave Conduction Time)
		i. Pulse oximeter probe.
		ii. Minimum 5 lead is considered.
		iii. Temperature probe.
		iv. NIBP (non-invasive blood pressure) probe All probes should be supplied in 2 pairs, should be re-usable and should include adult, pediatric & neonatal size cuff/leads.
		2. Capable of saving data for min 24 hrs.
		3. Rates for consumables should be offered in price bid.
		4. Optional item to be quoted : invasive blood pressure-monitoring module complete with reusable transducer.-DELETED
		5. The monitor should have facility for transmission of data from ambulance to a receiving station (desirable NOT Mandatory) to be quoted separately.
2.2	**Settings**	User operated 1mV ECG test marker function required.
2.3	**User's interface**	Manual (touch screen or remote operated not mandatory).
2.4	**Software and/or standard of communication**	Audio Visual alarms required: high and low levels for each parameter (operator variable settings), sensor / wire / probe disconnected, low battery.
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	Screen size minimum: 12 inches, Touch Screen For ease of Operation
3.2	**Weight (lbs, kg)**	<6kg.
3.3	**Configuration**	Case is to be hard and splash proof. Display must allow easy viewing in all ambient light levels.
		Cable connectors to be designed so as fit correct socket only.
3.4	**Noise (in dbA)**	<50 dB; Lead disconnection Alarm > 65 dB.
3.5	**heat dissipation**	Should maintain nominal Temp and the heat should be disbursed through a exhaust cooling fan.

3.6	**Mobility, portability**	Supplied in protective case for clean storage and safe transport.
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO_2)		
4.1	**Voltage (value, AC or**	220 to 240V, 50 Hz.
	DC, monophase or triphase)	
4.2	**battery operated**	Battery charger to be integral to mains power supply, and to charge battery during mains power operation of unit.Battery powered, silenceable alarm for power failure.Internal, replaceable, rechargeable battery allows operation for at least one hour in the event of power failure.
4.3	**Tolerance (to variations, shutdowns)**	Voltage corrector / stabilizer to allow operation at ± 30% of local rated voltage.
4.4	**Protection**	Electrical protection provided by fuses in both live and neutral supply lines.
4.5	**Power consumption**	<120Watt.
4.6	**Other energy supplies**	Mains cable.
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories & Spares**	1) ECG cable 5 lead- 1 nos, 2) Disposable ECG electrodes- 50 Nos 3) SPO2 Probe adult, ped, neo- 1 each, 4)NIBP cuff adult, ped, neo- 1 each 5)Temperature probe-1 Nos
5.2	**Consumables / reagents (open, closed system)**	
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.

6.2	**User's care, Cleaning, Disinfection & Sterility issues**	The case is to be cleanable with alcohol.
7. STANDARDS AND SAFETY		
7.1	**Certifications**	All medical equipment should meet AIS-125(part-2) standards. Monitor: ISO 60601-2-4
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	Supplier to perform installation, safety and operation checks before handover.
8.2	**Requirements for sign- off**	Supplier to perform installation, safety and operation checks before handover.
		Local clinical staff to affirm completion of installation.
8.3	**Training of staff (medical, paramedical, technicians)**	Training of users in operation and basic maintenance shall be provided.
8.4	**Others**	
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	3 years
9.2	**Maintenance tasks**	Maintainance manual detailing complete maintaining schedule.
9.3	**Service contract clauses, including prices**	Warranty of 3 years with free servicing (min. 3/year) during warranty.
9.4	**Others**	The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warranty period should be attached.
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	Advanced maintenance tasks required shall be documented.
		User, technical and maintenance manuals to be supplied in English language.

		List to be provided of equipment and procedures required for local calibration and routine maintenance.
10.2	**Other accompanying documents**	List to be provided of important spares and accessories, with their part numbers and cost. Certificate of calibration and inspection to be provided.
11. NOTES		
11.1	**Other information**	Contact details of manufacturer, supplier and local service agent to be provided.
11.2	**Recommendations or warnings**	Any warning signs would be adequately displayed.

10.Nebulizer

Technical Specifications		
Version no. :	1	
Date:	08-05-2013	
Done by : (name / institution)	HCT/ NHSRC	
NAME AND CODING		
GMDN name	Nebulizing systems	
GMDN code(s)	CT1097	
GMDN definition	An assembly of devices designed to generate warmed aerosolized medication/ fluids (finely dispersed airborne droplets in a liquid phase) intended to be inhaled by a patient with a respiratory disorder [e.g., chronic obstructive pulmonary disease (COPD), cystic fibrosis (CF)]. It will typically consist of an electrically-powered generator, a reservoir, a heating element, and a hand-held nebulizing chamber where the nebulization of the medicine usually takes place.	
GENERAL		
1. USE		
1.1	**Clinical purpose**	Designed to generate warmed aerosolized medication/fluids (finely dispersed airborne droplets in a liquid phase) intended to be inhaled by a patient with a respiratory disorder.
1.2	**Used by clinical department/ward**	All
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		

2.1	**Technical characteristics (specific to this type of device)**	Medicine cup capacity of minimum 5 ml.
2.2	**Settings**	Manual
2.3	**User's interface**	Manual
2.4	**Software and/or standard of communication(where ever required)**	NA
	3. PHYSICAL CHARACTERISTICS	
3.1	**Dimensions (metric)**	Should be compact.
3.2	**Weight (lbs, kg)**	<2kg.
3.3	**Configuration**	
3.4	**Noise (in dbA), heat dissipation**	<60dBA
3.5	**Mobility, portability**	yes
	4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)	
4.1	**Power Requirements**	220 V AC + 10%, 50Hz power supply.
4.2	**battery operated**	28 Rechargeable battery (4 8 V nominal output). -Deleted
4.3	**Tolerance (to variations, shutdowns)**	± 10% of input AC.
4.4	**Protection**	Electrical protection by resettable overcurrent breakers or replaceable fuses, fitted in both live and neutral lines

4.5	**Power consumption**	2Watt (nebulizing); 6.5 Watt (charging)
4.6	**Other energy supplies**	NA
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories & Spares**	With necessary accessories- nebulization mask, tubing for nebulizer; cable cord
5.3	**Consumables / reagents (open, closed system)**	Aerosol/medicinal solutions
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.
7. STANDARDS AND SAFETY		
7.1	**Certificates (pre-market, sanitary,)**	FDA/ CE ; ISO 27427-2010; IEC-60601-1-SER--Ed 1.0 - 2011
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	Supplier to perform installation, safety and operation checks before handover.
8.2	**Requirements for sign- off**	Certificate of Calibration and inspection from the factory.

8.3	**Training of staff (medical, paramedical, technicians)**	Training of users in operation and basic maintenance shall be provided
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	3 years
9.2	**Maintenance tasks**	Maintainance manual detailing complete maintaining schedule
9.3	**Service contract clauses, including prices**	Local clinical staff to affirm completion of installation
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	Advanced maintenance tasks required shall be documented
		User, technical and maintenance manuals to be supplied in english language.
		List to be provided of equipment and procedures required for local calibration and routine maintenance
10.2	**Other accompanying documents**	List to be provided of important spares and accessories, with their part numbers and cost. Certificate of calibration and inspection to be provided.
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	Contact details of manufacturer, supplier and local service agent to be provided.
11.2	**Recommendations or**	List to be provided of important spares and accessories, with their part
	Warnings	numbers and cost. Certificate of calibration and inspection to be provided.

11. Oxygen Cylinder D Type 2 Nos

Technical Specifications	
Version no. :	1
Date:	03-08-2013
Done by : (name / institution)	HCT/ NHSRC
NAME AND CODING	

GMDN name		Medical gas cylinders
GMDN category Code		CT 659
GMDN definition		A container designed as a refillable cylinder used to hold compressed medical oxygen (O2) under safe conditions at high pressure (e.g., 50 - 200 Bar). It is typically filled with O2 WHEN delivered from the gas supplier and includes a valve stem, an opening/closing valve, and will be graded according to size (capacity) and colour-coded to denote O2 Content. The cylinder may be made of steel, aluminium (Al) or other ferrous or non- ferrous materials and must be used together with a pressure regulator in order to release the O2 at the correct working pressure. O2 is used as an essential life support gas, for anaesthesia, and for therapeutic purposes
GENERAL		
1. USE		
1.1	**Clinical purpose**	A container designed as a refillable cylinder used to hold compressed medical oxygen (O2) under safe conditions at high pressure; O2 is used as an essential life support gas, for anaesthesia, and for therapeutic purposes.
1.2	**Used by clinical department/ward**	All
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics (specific to this type of device)**	1. It should be a standard ‘D' type molybdenum steel cylinder. 2. The capacity should be of approx 7 cu mt. at pressure of 1800 - 2000ibs/square inch. 3. A pressure regulator/flow meter capable of reducing the pressure to appropriate level to run either a ventilator or provide oxygen therapy. 4. should be seamless.
2.2	**Settings**	flowmeter for controlling flow of oxygen.
2.3	**User's interface**	Manual
2.4	**Software and/or standard of communication(where ever required)**	NA
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	The capacity should be of 5000 to 6000 Liters at pressure of 1800 - 2000ibs/ square inch.
3.2	**Weight (lbs, kg)**	NA
3.3	**Configuration**	NA
3.4	**Noise (in dbA), heat dissipation**	NA
3.5	**Mobility, portability**	yes; on its trolley; for Ambulances - to be supplied bare without trolley.

4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO_2)		
4.1	**Power Requirements**	NA
4.2	**battery operated**	NA
4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	NA
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories & Spares**	Humidifier, key and flow meter.
5.3	**Consumables / reagents (open, closed system)**	NA
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	NA
7. CERTIFICATES (pre-market, sanitary, ..)		
7.1	**Certifications**	Cylinder should have ISI mark and ISO certificate for quality standard or BIS equivalent; IS 3224. Cylinder should have explosive safety certificate and should be provided along with each cylinder during installation
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	NA
8.2	**Requirements for sign- off**	Certificate of Calibration, PESO certificate and inspection from the factory.
8.3	**Training of staff (medical, paramedical, technicians)**	Training of users in operation.
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	10 years
9.2	**Maintenance tasks**	NA

9.3	**Service contract clauses, including prices**	NA
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	NA
10.2	**Other accompanying documents**	NA
10.3	**Recommendations for maintenance**	NA
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	NA
11.2	**Recommendations or warnings**	Color Codes to be displayed on the cylinders.

12. Portable Cylinders 2 Ltrs

Sl.No	Technical Specifications
1	Max. Working Pressure at 15°C :150kgf/cm2
2	Test Pressure :250kgf/cm2
3	Water capacity:2.5 to 3.0 liters
4	Gas Capacity (Cubic Meters):250 to 350 liters of gas.
5	Minimum. Wall Thickness “t” (mm):3.2mm
6	Length “L” Approx.(mm):310mm
7	weight approx.(kg):2.5+kg
8	Built in online Pressure gauge, regulator
9	Statutory certifications: ISI Standards, BMP Certification WHO & Certified by Dept Explosives -GOI.

13. Spine Board

Technical Specifications	
Version no. :	1
Date:	08-05-2013
Done by : (name / institution)	HCT/ NHSRC
NAME AND CODING	
GMDN name	Stretchers and associated devices
GMDN code(s)	CT674

GMDN definition		A flat, stiff device intended to be placed under a patient (the patient is usually strapped to this device) to ensure spinal immobilization when a spinal injury is suspected. This device is often used in combination with a head/neck immobilizing device that is also typically fixed or strapped to it. It is typically used after serious accidents and for transport of the patient on a stretcher. It is typically made of x-ray translucent/non-ferromagnetically active materials that allow x-ray and magnetic resonance imaging (MRI) and comes in varioussizes. This is a reusable device.
1. USE		
1.1	**Clinical purpose**	It is placed under a patient to ensure spinal immobilization when a spinal injury is suspected.
1.2	**Used by clinical department/ward**	Emergency/Trauma Care
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics (specific to this type of device)**	1. Should be in plastic material of high strength and waterproof.
		2. It should be supplied with 3 belts with rapid unhooking buckle in all three belts.
		3. Should have radio transparency to make radiologic examinations/x- rays without removing the patient from the board.
2.3	**Settings**	NA
2.4	**User's interface**	Manual
2.5	**Software and/or standard of communication(where ever required)**	NA
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	Length: 180 - 190cm; Breadth: 40 - 48cm ; Height: 5 to 7cm.
3.2	**Weight (lbs, kg)**	Weight: <6 kg; load bearing capacity: upto 150 kgs.
3.3	**Configuration**	NA
3.4	**Noise (in dbA), heat dissipation**	NA
3.5	**Mobility, portability**	yes
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2		

4.1	**Power Requirements**	NA
4.2	**battery operated**	NA
4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	NA
4.6	**Other energy supplies**	NA
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories (mandatory, standard, optional)**	NA
5.2	**Spare parts (main ones)**	NA
5.3	**Consumables / reagents (open, closed system)**	NA
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	NA
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	NA
7. STANDARDS AND SAFETY		
7.1	**Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international**	All medical equipment’s should meet AIS-125(part-2) standards. spine board: EN 1865
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	Supplier to perform safety and operation checks before handover.
8.2	**Requirements for sign- off**	
8.3	**Training of staff (medical, paramedical, technicians)**	
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	1 year

9.2	**Maintenance tasks**	NA
9.3	**Service contract clauses, including prices**	NA
9.4	**Others**	
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	NA
10.2	**Other accompanying documents**	NA
10.3	**Recommendations for maintenance**	NA
10.4	**Others**	
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	NA
11.2	**Recommendations or warnings**	NA

14. Stethoscope

Technical Specifications	
Version no. :	1
Date:	08-05-2013
Done by : (name / institution)	HCT/ NHSRC
NAME AND CODING	
GMDN name	Stethoscopes
GMDN code(s)	CT1930
GMDN definition	A mechanical listening device designed for listening to sounds from the heart, lungs, and/or gastrointestinal tract. It typically comprises a membrane at the listening head connected by a split "y" tube to the headgear with ear olives that are placed into the users ears. Mechanical stethoscopes are typically found in two variants 1) a general-purpose stethoscope used for clinical/ward activities; or

		2) a reinforced stethoscope used by cardiologists.
GENERAL		
1. USE		
1.1	**Clinical purpose**	Listening to sounds from the heart, lungs, and/or gastrointestinal tract.
1.2	**Used by clinical department/ward**	All
1.3	**Overview of functional requirements**	
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics (specific to this type of device)**	Stethoscope of standard size, chromium plated metal binaural, V rubber tube in one piece. Rotating piper fitting for both flip functions.
2.2	**Settings**	NA
2.3	**User's interface**	Manual
2.4	**Software and/or standard of communication(where ever required)**	NA
2.5	**Others**	NA
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	Diaphragm approx: 20 mm.
3.2	**Weight (lbs, kg)**	NA
3.3	**Configuration**	NA
3.4	**Noise (in dbA)**	NA
3.5	**heat dissipation**	NA
3.6	**Mobility, portability**	Portable
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)		
4.1	**Power Requirements**	NA
4.2	**battery operated**	NA
4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	NA
4.6	**Other energy supplies**	NA
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories& Spares**	1 x spare set of earpiece, 1 x spare diaphram.

5.2	**Consumables / reagents (open, closed system)**	NA
5.3	**Others**	NA
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	NA
6.3	**Others**	NA
7. STANDARDS AND SAFETY		
7.1	**Certifications**	By ISO 9001 certified manufacturer.
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	NA
8.2	**Requirements for sign- off**	NA
8.3	**Training of staff (medical, paramedical, technicians)**	NA
8.4	**Others**	NA
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	1 year
9.2	**Maintenance tasks**	NA
9.3	**Service contract clauses, including prices**	NA
9.4	**Others**	NA
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	NA
10.2	**Other accompanying documents**	NA
10.3	**Recommendations for**	NA

	maintenance	
10.4	**Others**	NA
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	NA
11.2	**Recommendations or warnings**	NA

15. Suction Machine

Technical Specification		
Version no. :		**1**
Date:		**05-08-2013**
Done by : (name / institution)		**HCT/ NHSRC**
NAME AND CODING		
GMDN name		**Suction systems**
GMDN code		**CT1272**
GMDN definition		**An assembly of devices designed to evacuate fluid, tissue, gas, or other foreign materials from a body cavity or lumen by means of suction. It generally consists of a mains electricity (AC-powered) suction pump, tubing, plastic/glass collection container(s), a vacuum gauge, a vacuum control knob, an overflow trap, a moisture filter, and possibly a microbial filter. The pump creates a vacuum in the suction tubing, which is inserted into the body for the removal of materials into the collection container. This system can be used in a wide variety of settings within healthcare facilities.**
GENERAL		
1. USE		
1.1	**Clinical purpose**	**To aspirate fluids, secretions, or other foreign materials from a patient's airway by means of suction.**
1.2	**Used by clinical department/ ward**	**All**

		2. TECHNICAL CHARACTERISTICS
2.1	**Technical characteristics (specific to this type of device)**	Technical characteristics: 0-650 mmHg ± 10 regulable, 23LPM flow rate, high vacuum; flutter free vacuum control knob,; Wide mouthed 1 x 1 LITER (Polycarbonate) with self-sealing bungs and mechanical over flow safety device.
2.2	**Settings**	**Manual**
2.3	**User's interface**	**Manual**
2.4	**Software and/or standard of communication (where ever required)**	**NA**
		3. PHYSICAL CHARACTERISTICS
3.1	**Dimensions (metric)**	**Dimension- This point is deleted**
3.2	**Weight (lbS, kg)**	**Dimension- This point is deleted**
3.3	**Configuration**	**NA**
3.4	**Noise (in DbA)**	**50 dB A ± 3**
3.5	**Heat dissipation**	**Should maintain upto 36.5 deg temp and the heat disbursed through a exhaust fan.**
3.6	**Mobility, portability**	**yes**
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)		
4.1	**Power Requirements**	**Power requirement: 220v Av, 50/60Hz, 65 watt.**
4.2	**battery operated**	**NA**
4.3	**Tolerance (to variations, shutdowns)**	**Voltage corrector / stabilizer to allow operation at ± 30% of local rated voltage. Use of SMPS to correct voltage.**
4.4	**Protection**	**Electrical protection by resettable overcurrent breakers or replaceable fuses, fitted in both live and neutral lines.**
4.5	**Power consumption**	**200W**
4.6	**Other energy supplies**	**NA**

5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories & Spares**	**Collection container & its cap, suctions tube tips, a vacuum gauge and control knob.**
5.2	**Consumables / reagents (open, closed system)**	**Consumables / Reagents (open ,close system) tubing minimum 8mmIDX 2 mtr tube with 1*1 ltr polycarbonate jar.**
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	**Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.**
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	**Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.**
7. STANDARDS AND SAFETY		
7.1	**Certifications**	**All medical equipment should meet AIS-125(part-2) standards. Suction Apparatus: ISO 10079-1-1999**
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	**Avalability of 15 amp socket, safety and operation checks before handover.**
8.2	**Requirements for sign-off**	**Certificate of Calibration and inspection from the factory.**
8.3	**Training of staff (medical, paramedical, technicians) OPTIONAL (Depending upon scope of work order)**	**Training of users in operation and basic maintenance shall be provided**

9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	**3 years**
9.2	**Maintenance tasks**	**Maintainance manual detailing complete maintaining schedule**
9.3	**Service contract clauses, including prices**	**Local clinical staff / authorized officer on behalf of purchaser to affirm completion of installation**
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	**Advanced maintenance tasks required shall be documented.**
		User, technical and maintenance manuals to be supplied in english language along with machine diagrams.
		List to be provided of equipment and procedures required for local calibration and routine maintenance.
10.2	**Other accompanying documents**	**List to be provided of important spares and accessories, with their part numbers and cost. Certificate of calibration and inspection to be provided.**
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/landline number)**	**Any Contract (AMC/MC/add-hoc) to be declared by the manufacturer**
11.2	**Recommendations or warnings**	**Any recommendations for best use and supplementary warning for safety should be declared**

16. Wheel Chair

Sl.No	Technical Specifications
1	Should be light, safe and reliable. Made of aluminum alloy
2	Folded size: 93*51*16
3	Back Height: 91cms Width: 50cms

4	Seat height: 49cms Width: 50cms
5	Net weight: should be less than 10 Kgs.
6	Pull through, telescoping long handles built in to lift patients & carry them through narrow passages.
7	Two handles on the top, to facilitate the lifting of patients working in harmony with telescoping handles.
8	Loading Weight:159 Kgs.
9	Manufacturer should provide list of disinfectants and cleansing agents for clean and disinfection.
10	Equipment should be CE/FDA/ISI certified.

17. Artery Forceps

Technical Compliance		
Version no. :		1
Date:		08-05-2013
Done by : (name / institution)		HCT/ NHSRC
NAME AND CODING		
GMDN name		Forceps
GMDN code(s)		CT2065
GMDN definition		NA
GENERAL		
1. USE		
1.1	**Clinical purpose**	These are a handheld, hinged instrument used for grasping and holding objects.
1.2	**Used by clinical department/ward**	All
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics (specific to this type of device)**	Standard instrument in stainless steel length 14 cm; corrosion free.
2.2	**Settings**	NA
2.3	**User's interface**	NA
2.4	**Software and/or standard of communication(where ever required)**	NA
3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	Length 14 cm.
3.2	**Weight (lbs, kg)**	NA
3.3	**Configuration**	NA
3.4	**Noise (in dbA), heat dissipation**	NA
3.5	**Mobility, portability**	Yes
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)		
4.1	**Power Requirements**	NA

4.2	**battery operated**	NA
4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	NA
4.6	**Other energy supplies**	NA
	5. ACCESSORIES, SPARE PARTS, CONSUMABLES	
5.1	**Accessories (mandatory, standard, optional)**	NA
5.2	**Spare parts (main ones)**	NA
5.3	**Consumables / reagents (open, closed system)**	NA
	6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS	
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	NA
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents.
	7. STANDARDS AND SAFETY	
7.1	**Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international**	ISO 9001
	8. TRAINING AND INSTALLATION	
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	Supplier to perform safety and operation checks before handover.
8.2	**Requirements for sign- off**	
8.3	**Training of staff (medical, paramedical, technicians)**	
	9. WARRANTY AND MAINTENANCE	
9.1	**Warranty**	1 years
9.2	**Maintenance tasks**	NA
9.3	**Service contract clauses, including prices**	NA
9.4	**Others**	
	10. DOCUMENTATION	
10.1	**Operating manuals, service manuals, other manuals**	NA
10.2	**Other accompanying documents**	NA

10.3	**Recommendations for maintenance**	NA
10.4	**Others**	
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	NA
11.2	**Recommendations or warnings**	NA

18 Trolley Stretcher - with back tilt facility and Collapsible wheels for Uploading into the Trolley

Technical Specifications	
Version no. :	1
Date:	08-11-2013
Done by : (name / institution)	HCT/ NHSRC
NAME AND CODING	
GMDN name	Ambulance stretcher, manual
GMDN code(s)	CT1934
GMDN definition	A manually-operated device consisting of a platform mounted on a wheeled frame designed for use by emergency medical services (EMS) primarily to facilitate easy transport of a recumbent patient to and from ambulance vehicles (e.g., automobiles, aeroplanes, helicopters, boats). It is typically constructed of lightweight materials and has an undercarriage that opens and folds when it is removed from or pushed into the ambulance; it also usually includes locking devices that match with the locking/docking devices in the ambulance.
GENERAL	
1.USE	
1.1 **Clinical purpose**	It is designed for use by emergency medical services (EMS) primarily to facilitate easy transport of a recumbent patient to and from ambulance vehicles.

TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	**Technical characteristics (specific to this type of device)**	1. Automatic loading stretcher with capability to convert into wheelchair.- DELETED 2. Built with anodized aluminum lightweight / stainless steel. 3. Adjustment system should have 3 stage height adjustments, 6 stage back rest adjustment. 4. Side protections completely overturn able with easy locking safety belts flap type. 5. Safety lever for the legs positioned near the unlocking device allowing thus the release operation for the loading, keeping the hands on the stretcher. 6. Vertical legs protected by nylon wedges. 7. Automatic centering device mounted on rotating wheels. This system automatically blocks the back wheels in the central position during the loading of the stretcher on the ambulance without having turn the wheels manually. 8. Stand for automatic loading stretcher with locking facility for quick fixing system with handle to mount the stand in very position on the stretcher. 9. One number of IV pole of adjustable height should be provided.
2.3	**Settings**	NA
2.4	**User's interface**	NA
2.5	**Software and/or standard of communication(where ever required)**	NA

3. PHYSICAL CHARACTERISTICS		
3.1	**Dimensions (metric)**	Should meet standards as per international centre for automative technology . Must be ICAT certified
3.2	**Weight (lbs, kg)**	Weight 45 kg; Load bearing Capacity: upto150 kgs.
3.3	**Configuration**	NA
3.4	**Noise (in dbA), heat dissipation**	NA

3.5	**Mobility, portability**	yes on castors
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)		
4.1	**Power Requirements**	NA
4.2	**battery operated**	NA
4.3	**Tolerance (to variations, shutdowns)**	NA
4.4	**Protection**	NA
4.5	**Power consumption**	NA
4.6	**Other energy supplies**	NA
5. ACCESSORIES, SPARE PARTS, CONSUMAbLES		
5.1	**Accessories (mandatory, standard, optional)**	Stand for loading stretcher
5.2	**Spare parts (main ones)**	Castors,Safety lever
5.3	**Consumables / reagents (open, closed system)**	NA
5.4	**Other**	
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	**Atmosphere / Ambiance (air conditioning, humidity, dust ...)**	Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.
6.2	**User's care, Cleaning, Disinfection & Sterility issues**	NA
7. STANDARDS AND SAFETY		
7.1	**Certificates (pre-market, sanitary, ...); Performance and safety standards (specific to the device type); Local and/or international**	Stretcher must be approved/certified by international centre for automative technology (A division of NATRIP implementation society (NATIS) Govt of India
8. TRAINING AND INSTALLATION		
8.1	**Pre-installation requirements: nature, values, quality, tolerance**	Supplier to perform safety and operation checks before handover
8.2	**Requirements for sign- off**	Certificate of inspection from the factory.
8.3	**Training of staff (medical, paramedical, technicians)**	Training of users in operation and basic maintenance shall be provided.
9. WARRANTY AND MAINTENANCE		
9.1	**Warranty**	3 years + 3 years CAMC
9.2	**Maintenance tasks**	Maintenance manual detailing complete maintaining schedule

9.3	**Service contract clauses, including prices**	
10. DOCUMENTATION		
10.1	**Operating manuals, service manuals, other manuals**	Required- along with diagrammatic maintenance manual
11. NOTES		
11.1	**Service Support Contact details (Hierchy Wise; including a toll free/ landline number)**	Should provide complete contact details of sales and service departments
11.2	**Recommendations or warnings**	Any warning should be displayed.

SECTION VII : QUALIFICATION CRITERIA

(Referred to in Clause 11.2(b) of ITT)

1. (a) The tenderer should be a manufacturer who must have manufactured, tested and supplied the item(s) similar to the type specified in the 'Schedule of Requirements' up to at least 80% of the quantity required in any one of the last 3 years (i.e 2022-23, 2023-24, 2024-25). The items offered must be of the most recent series incorporating the latest improvements in design. The models should have been released on or after and be in satisfactory operation for 12 months as on date of tender opening.(As per GO no FD 908 Exp-12/2019 Bengaluru dated 21/07/2020. 40% performance for Micro and small enterprises bidder of respective quantity as per schedule of requirement in any one of the last two years i.e., 2023-24, 2024-25)

(b) Tenders of tenderers quoting as authorized representative of a manufacturer, meeting with the above requirement in full, can also be considered provided:

(i) the manufacturer furnishes authorization in the prescribed format assuring full guarantee and warranty obligations as per GCC and SCC; and

(ii) the tenderer, as authorized representative, has supplied, installed and commissioned satisfactorily at least 30% of the quantity similar to the type specified in the Schedule of Requirements in any one of the last three years (i.e 2022-23, 2023-24, 2024-25) which must be in satisfactory operation for at least 12 months on the date of tender opening.

2. The tenderer should furnish the information on all past supplies and satisfactory performance for both (a) and (b) above, in proforma under Section XII.

3. Annual Turnover:

Sl.NO	Name of the Item	**The average Annual financial Turnover of the tenderer during the last 3 preceding financial years (i.e**, 2021-22, 2022-23, 2023-24**):**	**The average Annual financial Turnover of the tenderer (Micro & small Enterprises) during the last 2 preceding financial years (i.e 2022-23, 2023-24)**
1.	**Ambulance with fabrication and medical equipment's as per specifications in the tender document**	7,10,60,626	3,55,30,313
2.	**Grand Total**	7,10,60,626	3,55,30,313

4. The model/samples quoted by the bidder must be demonstrated and should be as per the technical specifications of this tender, subject experts will evaluate the model/samples at the time of demonstration, if the submitted model/sample for demonstration is not as per the technical specifications, or if it is of poor quality then those bids will be rejected.

SECTION VIII: TENDER FORM

Tender Reference number: Date:

From,

To
CHO (PH),
BBMP

Sir,

Having examined the Tender Documents including Addenda …… ……., the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the goods as per tender conditions and provide service in accordance with said tender documents and the rates uploaded in the Eportal is made part of this tender.

We undertake, if our tender is accepted, to deliver the goods and service in accordance with the delivery schedule specified in the Schedule of Requirements.

Sl.no	Name of the item quoted	Remarks

If the tender is accepted, the first party shall obtain from the successful bidder, the guarantee of sum equivalent to 5% of the contract price for the due performance of the contract in the form of Bank Guarantee.

We agree to abide by this tender for the Tender validity period specified in Clause 14.1 of the ITT and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this tender, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

We understand that you are not bound to accept the lowest or any tender you may receive.
We clarify/confirm that we comply with the eligibility requirements as per ITT Clause 1 of the tender documents.

Dated this ....day of ..... 20 .....

(signature)

FINANCIAL BID

Rates to be quoted in the Karnataka public procurement portal Only.

SECTION IX:

EARNEST MONEY DEPOSIT BANK GUARANTEE FORM: Not applicable.

SECTION X:
CONTRACT FORM

THIS AGREEMENT made the .....day of....., 20... Between..... *(Name of purchaser)* of..... *(Country of Purchaser)* (Hereinafter called "the Purchaser") of the one part and..... *(Name of Supplier)* of..... *(City and Country of Supplier)* (Hereinafter called "the Supplier") of the other part:

WHEREAS the Purchaser is desirous that certain ancillary services viz.,.....*(Brief Description of Services)* and has accepted a tender by the Supplier for the supply of those services in the sum of..... *(Contract Price in Words and Figures)* (Herein after called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
   (a) the Tender Form and the Price Schedule submitted by the Tenderer;
   (b) the Schedule of Requirements;
   (c) the Technical Specifications;
   (d) the General Conditions of Contract;
   (e) the Special Conditions of Contract; and
   (f) the Purchaser's Notification of Award.
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and satisfactory services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and satisfactory services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
   Brief particulars of the services which shall be supplied/provided by the Supplier are as under:

SL.NO.	BRIEF DESCRIPTION OF SUPPLY	UNIT PRICE	TOTAL PRICE	Delivery terms

Total value:

DELIVERY SCHEDULE:

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the
said ..... (For the Purchaser)
in the presence of:.....
Signed, Sealed and Delivered by the said .....(For the Supplier)
in the presence of:.....

SECTION XI

PERFORMANCE SECURITY FORM

To: (Name of Purchaser)
.....

WHEREAS (Name of Supplier)
hereinafter called "the Supplier" has undertaken , in pursuance of Contract dated,.....
No..... 20... to
Supply.....
..... (Description of Supply) hereinafter called "the Contract".

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of .... (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of ..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the .....day of.....20.....

Signature and Seal of Guarantors
.....
.....
.....
Date.....20....
Address:.....
.....
.....

Nationalized Bank to be furnished.

SECTION XII

(Please see Clause 11.2 (b) of the Instructions to Tenders)

Proforma for Performance Statement of the last three years

Name of the Firm:

……..

Orders placed by (Full address of Purchaser)	Order No and Date	Description of goods ordered	Value of Order	Date of Completion of delivery of goods As per contract/ Actual	Remarks indicating reasons for late delivery, if any	Has the goods been supplied satisfactorily functioning. (Attach a Certificate from the Purchaser if any)
1	2	3	4	5	6	7

Signature and Seal of the Tenderer:

SECTION XIII:- MANUFACTURERS' AUTHORIZATION FORM*

(Please see Clause 11.2(a) of Instructions to BIDDERS)

No._____ dated

To

CHO, PH, BBMP

Dear Sir:

.

We…… …… who are established and reputable manufacturers of …… …… ……..(name and description of goods offered) having factories at ……(address of factory) do hereby authorize M/s……..(Name and address of Agent) to submit a tender, and sign the contract with you for the goods manufactured by us against the above.

No company or firm or individual other than M/s _____ are authorized to tender, and conclude the contract for the above goods manufactured by us, against this specific.

We hereby extend our full guarantee and warranty as per Section XIII of the tender document and of the General Conditions of Contract for the goods and services offered for supply by the above firm against this.

Yours faithfully,

(Name)

(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Tenderer in its tender.

SECTION XIV-PROFORMA FOR VEHICLES AND QUALITY CONTROL EMPLOYED BY THE MANUFACTURER

IFT NO. ..... DATE OF OPENING : .....

NAME OF THE TENDERER :

.....

(Note : All details should relate to the manufacturer for the items offered for supply)

1. Name & full address of the Manufacturer
2. (a) Telephone & Fax No Office/Factory/Works

(b) Telex No. Office/Factory/Works

(c) Telegraphic address :

3. Location of the manufacturing factory.
4. Details of Industrial License, wherever required as per statutory regulations.
5. Details of important Plant & Machinery functioning in each dept. (Monographs & description pamphlets be supplied if available).
6. Details of the process of manufacture in the factory.
7. Details & stocks of raw materials held.
8. Production capacity of item(s) quoted for, with the existing Plant & Machinery

8.1 Normal

8.2 Maximum

9. Details of arrangement for quality control of products such as laboratory, testing vehicles etc.
10. Details of staff:

10.1 Details of technical supervisory staff in charge of production & quality control.

10.2 Skilled labour employed.

10.3 Unskilled labour employed.

10.4 Maximum No. of workers (skilled & unskilled) employed on any day during the 18 months preceding the date of Tender.

11. Whether Goods are tested to any standard specification? If so, copies of original test certificates should be submitted in triplicate.

..... Signature and seal of the Manufacturer.....

FORMAT OF AFFIDAVIT

[To be submitted by bidder on Stamp Paper of Rs. 100/-]
[The affidavit shall be notarized]

AFFIDAVIT

This affidavit is executed by M/s. _____ on day _____, Year _____, for the tender called by BBMP, for the tender _____ vide Reference No._____.
We/I hereby declare and undertake on oath as follows:

1) We / I that all the documents, testimonials, certificates, etc., submitted by us for the above-mentioned tender are all correct and genuine.
2) We / I declare that the Purchase Order, Invoices, Certifications, proof of payment, submitted by us as proof for 80% Performance Criteria and 30% Performance Criteria are correct and genuine.
3) We / I declare that our firm / company M/s. _____ is not blacklisted or de-registered by any Government / Quasi Government / and other organization.
4) We / I declare that we / I will not supply End of Life and / or refurbished vehicles / items.
5) We / I declare that the items quoted by us shall be in commercial production and support by the manufacturer for a period of Warranty and CMC as stated in the Tender.
6) We / I are aware that if one or more of the above declarations and undertakings are found to have been violated/breached, then We / I shall be blacklisted by BBMP for the period of five years.

Identified by me:

Deponent

Advocate
Name: _____
Title: _____
Company: _____
Date: _____
Place: _____

ANNUAL TURNOVER STATEMENT

The Annual Turnover of M/s. _____
for the past three years are given below and certified that the statement is true and correct.

Sl.	Financial Year	Turnover (in Rs.)
1.	2021-22	
2.	2022-23	
3.	2023-24	

Date:
Place:
Chartered Account's Seal:

Chartered Account's Signature:
Name:
Chartered Accountant's Registration Number:

Unique Document Identification Number(UDIN)

Proof of SERVICE CENTRE IN BENGALURU

Name of the Service Centre	Number of Technical staff available	Location with address and telephone	Service support facilities that would be provided

Seal and Signature……

PROFORMA OF SELF DECLARATION FOR BORDER SHARING OR NOT SHARING BY BIDDERS and OEM

(To be furnished on the Bidder's Letter Head and OEM letter head)

Ref …… Date ……

To,
AC welfare, BBMP

Dear Sir,

I*/We* have read and examined the requirement of the tender condition stipulated against clause of Bid Documents relating to the Tender Enquiry No. ……

I*/We* hereby undertake to declare that (Applicable in case of Bidders from Countries not sharing Border with India)

I*/We* have read the clause regarding restrictions on procurement from a Bidder of a country which shares a land border with India;
I*/We* certify that ……(Bidder) is not from such a country which shares a land border with India. I hereby certify that our bid fulfils all requirements in this regard and is eligible to be considered.

OR

I*/We* hereby undertake to declare that (Applicable in case of Bidders from Countries sharing Border with India)

I*/We* have read the clause regarding restrictions on procurement from a Bidder of a country which shares a land border with India;
I*/We* certify that ……(Bidder) is from such a country which shares a land border with India and has been registered with the Competent Authority. I hereby certify that our bid fulfils all requirements in this regard and is eligible to be considered and also evidence of valid registration issued by the Competent Authority is uploaded.

Date:

Signature along with Seal of Co.
……
(Duly authorised to sign the Tender
On behalf of the Bidder)
Name ……
Designation ……
Name of Co …… (in Block Letters)

***Strike out whichever is not applicable.**
Please Note: Among the above two declarations, only one which is applicable is to be declared.

BANK ACCOUNT DETAILS

The bidder shall provide all the information such as Bank Account details, valid email ids, and valid contact Number of the contact person on the letterhead of the bidder.
IFT No. _____ Date: ___/___/_____

1) For RTGS
   a) Beneficiary Name:
   b) Beneficiary Bank and Branch:
   c) Address and Phone No. of Bank:
   d) Account No.:
   e) IFSC Code:

2) For Confirmation of transfer
   a) Name of the Contact Person
   b) Designation:
   c) Mobile Phone No.:
   d) Email id:

Date: Signature:
Place: Name:
Company Seal: Designation:

CHECKLIST OF DOCUMENTS TO BE SUBMITTED BY BIDDERS

IMPORTANT NOTICE: *The following checklist of documents should be submitted by the bidder in the tender. The following list is only an illustrative list and not the complete list of documents. Bidders may please note that, in case one or more documents as required in the tender document are not submitted in the tender, as per the format mentioned in the tender document and in clear & readable format, before the tender due date and time, then the tender submitted by the bidder shall be liable for outright rejection. The purchaser shall not accept any document which have not been uploaded before the tender due date and time. Therefore, the bidders are requested to read the tender document carefully and submit/upload the complete list of documents as required in the tender document.*

IFT No. _____ Date: ___/___/_____

Sl.	Details	Submitted (Yes / No)
1.	Earnest Money Deposit (EMD)	
2.	GST Registration Certificate	
3.	Annual Turnover for the past three year as per format 21-22, 22-23, 23-24	
4.	Tender offer form as per proforma given in Section-VIII	
5.	Affidavit	
6.	Proof of SERVICE CENTRE IN BENGALURU	
7.	Manufacturing License	
8.	Manufacturer's Authorization as per proforma given in Section-XIII	
9.	80% /40% Performance Statement to be submitted by the Manufacturer as per proforma	
10.	Proof of 80% performance (Supply orders or invoices copies to be submitted by the Manufacturer	
11.	30% Performance statement to be submitted by dealer / authorized agent as per proforma	
12.	Proof of 30% performance (Supply orders or invoices copies) to be submitted by dealer / authorized agent	
13.	End user certificate	
14.	Vehicles& Quality control certificate as per proforma given in Section- XIV	
15.	Technical literatures of the quoted model	
16.	Technical Compliance statements	
17.	Standard certificate from competent authority will be accepted.	
18.	PROFORMA OF SELF DECLARATION FOR BORDER SHARING OR NOT SHARING BY BIDDERS	
19.	Any other documents as mentioned in tender document	

Date: Signature:
Place: Name:
Company Seal: Designation: